CR 466-A LANDFILL

AIR CURTAIN INCINERATOR

8979 CR 466-A
Wildwood, Florida 34785
Sumter County, Florida
Re: **FDEP Permit No. 1190036-001-AC**

OPERATIONS GUIDELINES MANUAL

Prepared For:

CR 466-A Landfill, L.L.C.
c/o Mr. Howard Hewitt
P. O. Box 490697
Leesburg, Florida 34749-0697

Prepared By:

Wicks Consulting Services, Inc.
225 West Main Street
Tavares, Florida 32778
(352) 343-8667

January 3, 2002
Revised July 1, 2002

TABLE OF CONTENTS

ATTACHMENTS

CR 466-A LANDFILL
AIR CURTAIN INCINERATOR

OPERATIONS GUIDELINES MANUAL

Introduction

The purpose of this Manual is to provide operations personnel and supervisors with specific and general guidelines for safely operating and maintaining the air curtain incinerator unit, and achieving air quality standards through efficient incineration of approved debris brought to the site.

The Air Curtain Incinerator

The air curtain incinerator unit (ACI) is manufactured by A.B.I., Inc. Manufacturer – Diversified, of Stuart, Florida. The system is to be operated as a trench type unit, with a trench excavated 10' below grade into dense clay soils.

The A.B.I., Inc. literature lists the following features about the ACI:

Portable Air Curtain Incinerator, manufactured by A.B.I., Inc. Manufacturer – Diversified, Stuart, Florida.
Power: 4 cylinder diesel @ 67 h.p.
Fan: 15,500 c.f.m. centrifugal fan
Air Output: 165 m.p.h. @ fan, 110 m.p.h. @ air spouts with 10,400 c.f.m.
Manifold: 1/8" steel solid weld assembly, air spouts inject air at 20 degree angle to maintain proper combustion air curtain

The attached Site Plan, prepared by Wicks Consulting Services, Inc., shows the initial location of the ACI on the CR 466-A landfill site and *a typical plan and elevation view* of the ACI setup for operation.

Incoming Waste Handling:

The landfill attendant will be responsible to separate the in-coming loads of land clearing and yard waste debris at the site office which is located near the front gate. Vehicles will be directed to the area of the ACI for a secondary inspection by a spotter. Accepted loads will be dumped in a designated area in the proximity of the ACI. The ACI trench will be charged with debris from the staging area by a front-end loader.

ACI Operation

The ACI will be utilized for incineration of land clearing debris, yard waste (leaves, grass clippings & hedge trimmings all removed from plastic bags or similar containers prior to incineration) and clean wood.

The burn trench will be ignited with 5 gallons of No. 2 diesel fuel on days that the unit is in operation. When the debris has achieved combustion, the air curtain incinerator unit will be brought to full operational output and incineration of debris will continue by charging the trench with a front-end bucket loader.

The trench will be allowed to cool at the end of each days operation. The front-end loader will be utilized to remove the ash residue from the trench as-needed to maintain effective air movement within the burn trench.

The area adjacent to the ACI must be kept orderly and debris to be incinerated stored in small piles to prevent accidental ignition. Sparks from the ACI can also be a source of ignition, not only to the staging area debris, but also to the other landfill operations. Therefore, observation of other site areas is essential to prevent fires.

The Landfill Facility

The CR 466-A landfill is permitted by the Florida Department of Environmental Protection under Permit No. 172478-002, to construct, operate and close a construction and demolition debris disposal and recycling facility on approximately 65 acres of an 80 acre site in 6 phases (Phases "A", "B", "C", "D", "E", and "F"). The ACI unit will be located on the C & D facility site.

Maintenance & Inspection

Daily inspections of ACI equipment, roadway, trench structure and debris storage staging areas are to be performed by operations and supervisory personnel. The level of ash residue in the burn trench should be checked each morning prior to loading (charging) the trench. The trench sidewalls are excavated vertically above the floor to a height of ten feet (10'). The earthen burning pit is 35 feet long by 12 feet wide by 10 feet deep. When the ash residue reaches 1/3 of the volume of the trench it will be required to clean the trench floor of ash residue. The pit is marked with an indicator to shown the 1/3 depth. The ash will be utilized as a soil fertilizer on the landfill site. It will be stockpiled temporarily to cool, then applied over the setback areas and closed portions of the C & D Landfill.

The results of daily inspections and any maintenance performed should be kept in an inspection log (see the *Reporting & Record Keeping* section) with date recorded and items noted which need attention and appropriate follow-up corrective/investigative action indicated, along with the name of the individual performing the inspection or maintenance.

Safety & Emergency Preparedness

The job of the ACI site personnel is one of long periods of routine, sometimes boring work, interrupted occasionally by intense stressful situations that require snap decisions and quick action. The most important thing that can be done is to remain calm. A well developed and understood emergency response plan is the vest protection for employees and the environment. The following emergencies are briefly described along with the recommended plan of action to be followed to deal with each situation.

Fire:

A fire caused by a spark or hot ashes in the debris piles can be smothered by soil material moved over the "hot spot" by the site equipment operator with the dedicated site loader or tracked dozier. The operator must not get the machine over or into the fire. Use soil material to push ahead of the equipment to cover and smother the fire. If the fire is too aggressive for the operator to control, CALL 911 as soon as possible.

The site operator must insure all on-site persons and vehicles are moved upwind of the immediate area and wait in the vicinity of the site gate to assist arriving emergency crews. The site operator should remain on the telephone with the 911 Emergency operator if possible.

Injury

The Training Plan outlines the level of proficiency to have site operation personnel trained in first aid and adequate first aid supplies are to be maintained at the site.

Should an injury occur, immediately administer necessary first aid to the injured person. If the injury is minor, note the name of the injured person in the Daily Log and notify the C & D facility owner as soon as possible. Should the injury be serious or life threatening, CALL 911 IMMEDIATELY and administer necessary first aid to the injured person. Remain on the telephone with the Emergency Operator if possible until emergency response crews arrive.

Hazardous Waste Material

Should hazardous waste (HW) materials be found in C & D debris, site operations personnel should not attempt to remove chemicals or hazardous substances. The site operator should immediately clear the area of all personnel, relocating to a secure area upwind of the location of the hazardous substance. The site operator should then CALL 911 and report the situation, attempting to stay on the telephone with the Emergency Operator until emergency response crews arrive. Every effort should be made to determine the source of the HW, as illigally disposing of HW is a criminal offense.

All occurrences of an emergency nature are to be reported to the facility owner as soon as possible and a full written report entered into the Daily Log.

Emergency Contact Phone Numbers:

Mr. Howard Hewitt Owner/Operator	(352) 787-5651
Sumter County Fire, Medical Emergency & Rescue	911
Sumter County Sheriff's Office - Emergency Non-Emergency	911 (352) 728-6909
Hazardous Materials: Emergency Response Center	(800) 564-7577
Hazardous Waste Information	(404) 562-8579
Toxic Chemical & Oil Spills:	(800) 424-8802
Florida Highway Patrol Fruitland Park – Non Emergency	(352) 360-6511
Florida Department of Environmental Protection: Tampa District Office	(813) 744-6100

Air Quality Concerns

The ACI is subject to regulation as an air emissions unit and must comply with visible emissions limitation standards. Semi-annual compliance testing is required and must be conducted at the owner/operator's expense. The FDEP Permit *Specific Conditions* describe the testing required. The procedure to conduct the required compliance testing is also addressed in FAC 62-297.310 General Compliance Test Requirements and FAC 62-297.401 Compliance Test Methods. A copy of Florida Administrative Code (FAC) Chapter 62-297 and the FDEP Construction Permit are attached in the Appendix of this Manual. The owner/operator of the ACI should become familiar with this regulation and the FDEP Operating Permit for the ACI unit.

Regulatory Agencies

The Florida Department of Environmental Protection, Southwest District, Tampa office, telephone number (813) 744-6100, Air Permitting Section, is the state regulatory agency with permitting and compliance responsibility regarding ACI unit operation.

Sumter County Board of County Commissioners (telephone number 352-793-0270) has issued a land Use Permit for the C & D Landfill and has allowed the landfill facility to operate under certain conditions of this permit. Copies of these permits are on file at the CR 466-A Landfill office located near the site front gate.

Training Plan

Employees and supervisors operating the ACI unit shall be trained to a level of proficiency necessary to operate and maintain the site in a safe and practical manner. They shall be instructed in the principals of first aid and safety and in the specific operational procedures necessary to prevent accidents, including limitation of access by unauthorized persons. Additionally, operations personnel and spotters are required to identify and properly manage any hazardous or prohibited materials which may be received at the facility.

The site supervisor shall periodically review the contents of this Manual with employees.

Reporting & Record Keeping

A copy of all operating records, reports, engineering drawings, training certificates, permits and approved operations plan will be kept on file in the landfill operations office located at the front gate. These documents will be available for review during normal operating hours and will be a part of the Facility's permanent records.

A copy of the Daily Operation record keeping forms are attached which will assist in accounting and the site operation recording activities. A Daily Log form is attached and shall be maintained to record operation information, including the quantity of debris received. The total site operation shall be carried on to insure a systematic businesslike manner, and records are to be kept in a chronological format.

r2466aircurtman

CR 466-A LANDFILL
AIR CURTAIN INCINERATOR UNIT
Sumter County, Florida

OPERATION RECORD

Date	Hours Operated	Operator's Name	Volume Received (cu. yds.)	Maintenance or Notes

CR 466-A LANDFILL
AIR CURTAIN INCINERATOR UNIT

DAILY LOG

DATE: ____________________

Name of Customer	Type of Material	Cubic Yards	Spotter's Name	Location Material Hauled From or Comments

ATTACHMENTS

Chapter 62-297 - Stationary Sources — Emissions Monitoring

History

62-297.100 Purpose and Scope.

The Department of Environmental Protection adopts this chapter to establish test procedures that shall be used to determine the compliance of air pollutant emissions units with emission limiting standards specified in or established pursuant to any of the stationary source rules of the Department. Words and phrases used in this chapter, unless clearly indicated otherwise, are defined at Rule 62-210.200, F.A.C.

62-297.200 Definitions [Repealed]

62-297.310 General Compliance Test Requirements.

(1) Required Number of Test Runs. For mass emission limitations, a compliance test shall consist of three complete and separate determinations of the total air pollutant emission rate through the test section of the stack or duct and three complete and separate determinations of any applicable process variables corresponding to the three distinct time periods during which the stack emission rate was measured; provided, however, that three complete and separate determinations shall not be required if the process variables are not subject to variation during a compliance test, or if three determinations are not necessary in order to calculate the unit's emission rate. The three required test runs shall be completed within one consecutive five-day period. In the event that a sample is lost or one of the three runs must be discontinued because of circumstances beyond the control of the owner or operator, and a valid third run cannot be obtained within the five-day period allowed for the test, the Secretary or his or her designee may accept the results of two complete runs as proof of compliance, provided that the arithmetic mean of the two complete runs is at least 20% below the allowable emission limiting standard.

(2) Operating Rate During Testing. Unless otherwise stated in the applicable emission limiting standard rule, testing of emissions shall be conducted with the emissions unit operating at permitted capacity as defined below. If it is impractical to test at permitted capacity, an emissions unit may be tested at less than the maximum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test rate until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity.

(a) Combustion Turbines. [Reserved]

(b) All Other Sources. Permitted capacity is defined as 90 to 100 percent of the maximum

operation rate allowed by the permit.

(3) Calculation of Emission Rate. The indicated emission rate or concentration shall be the arithmetic average of the emission rate or concentration determined by each of the three separate test runs unless otherwise specified in a particular test method or applicable rule.

(4) Applicable Test Procedures.

(a) Required Sampling Time.

1. Unless otherwise specified in the applicable rule, the required sampling time for each test run shall be no less than one hour and no greater than four hours, and the sampling time at each sampling point shall be of equal intervals of at least two minutes.

2. Opacity Compliance Tests. When either EPA Method 9 or DEP Method 9 is specified as the applicable opacity test method, the required minimum period of observation for a compliance test shall be sixty (60) minutes for emissions units which emit or have the potential to emit 100 tons per year or more of particulate matter, and thirty (30) minutes for emissions units which have potential emissions less than 100 tons per year of particulate matter and are not subject to a multiple-valued opacity standard. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. Exceptions to these requirements are as follows:

a. For batch, cyclical processes, or other operations which are normally completed within less than the minimum observation period and do not recur within that time, the period of observation shall be equal to the duration of the batch cycle or operation completion time.

b. The observation period for special opacity tests that are conducted to provide data to establish a surrogate standard pursuant to Rule 62-297.310(5)(k), F.A.C., Waiver of Compliance Test Requirements, shall be established as necessary to property establish the relationship between a proposed surrogate standard and an existing mass emission limiting standard.

c. The minimum observation period for opacity tests conducted by employees or agents of the Department to verify the day-to-day continuing compliance of a unit or activity with an applicable opacity standard shall be twelve minutes.

(b) Minimum Sample Volume. Unless otherwise specified in the applicable rule, the minimum sample volume per run shall be 25 dry standard cubic feet.

(c) Required Flow Rate Range. For EPA Method 5 particulate sampling, acid mist/sulfur dioxide, and fluoride sampling which uses Greenburg Smith type impingers, the sampling nozzle and sampling time shall be selected such that the average sampling rate will be between 0.5 and 1.0 actual cubic feet per minute, and the required minimum sampling volume will be obtained.

(d) Calibration of Sampling Equipment. Calibration of the sampling train equipment shall be conducted in accordance with the schedule shown in Table 297.310-1.

(e) Allowed Modification to EPA Method 5. When EPA Method 5 is required, the following modification is allowed: the heated filter may be separated from the impingers by a flexible tube.

TABLE 297.310-1 CALIBRATION SCHEDULE

ITEM	MINIMUM CALIBRATION FREQUENCY	REFERENCE INSTRUMENT	TOLERANCE
Liquid in glass thermometer	Annually or equivalent, or thermometric points	ASTM Hg in glass ref. thermometer	+/-2%
Bimetallic thermometer	Quarterly	Calib. liq. in glass thermometer	5 degrees F
Thermocouple	Annually	ASTM Hg in glass ref. thermometer, NBS calibrated reference and potentiometer	5 degrees F
Barometer	Monthly	Hg barometer or NOAA station	+/-1% scale
Pitot Tube	When required or when damaged	By construction or measurements in wind tunnel D greater than 16" and standard pitot tube	See EPA Method 2, Fig. 2-2 & 2-3
Probe Nozzles	Before each test or when nicked, dented, or corroded	Micrometer	+/-0.001" mean of at least three readings Max. deviation between readings .004"
Dry Gas Meter and Orifice Meter	1. Full Scale: When received, When 5% change observed. Annually 2. One Point: Semiannually 3. Check after each test series	Spirometer or calibrated wet test or dry gas test meter Comparison check	2% 5%

(5) Determination of Process Variables.

(a) Required Equipment. The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to

determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.

(b) Accuracy of Equipment. Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.

(6) Required Stack Sampling Facilities. Sampling facilities include sampling ports, work platforms, access to work platforms, electrical power, and sampling equipment support. All stack sampling facilities must meet any Occupational Safety and Health Administration (OSHA) Safety and Health Standards described in 29 CFR Part 1910, Subparts D and E.

(a) Permanent Test Facilities. The owner or operator of an emissions unit for which a compliance test, other than a visible emissions test, is required on at least an annual basis, shall install and maintain permanent stack sampling facilities.

(b) Temporary Test Facilities. The owner or operator of an emissions unit that is not required to conduct a compliance test on at least an annual basis may use permanent or temporary stack sampling facilities. If the owner chooses to use temporary sampling facilities on an emissions unit, and the Department elects to test the unit, such temporary facilities shall be installed on the emissions unit within 5 days of a request by the Department and remain on the emissions unit until the test is completed.

(c) Sampling Ports.

1. All sampling ports shall have a minimum inside diameter of 3 inches.

2. The ports shall be capable of being sealed when not in use.

3. The sampling ports shall be located in the stack at least 2 stack diameters or equivalent diameters downstream and at least 0.5 stack diameter or equivalent diameter upstream from any fan, bend, constriction or other flow disturbance.

4. For emissions units for which a complete application to construct has been filed prior to December 1, 1980, at least two sampling ports, 90 degrees apart, shall be installed at each sampling location on all circular stacks that have an outside diameter of 15 feet or less. For stacks with a larger diameter, four sampling ports, each 90 degrees apart, shall be installed. For emissions units for which a complete application to construct is filed on or after December 1, 1980, at least two sampling ports, 90 degrees apart, shall be installed at each sampling location on all circular stacks that have an outside diameter of 10 feet or less. For stacks with larger diameters, four sampling ports, each 90 degrees apart, shall be installed. On horizontal circular ducts, the ports shall be located so that the probe can enter the stack vertically, horizontally or at

a 45 degree angle.

5. On rectangular ducts, the cross sectional area shall be divided into the number of equal areas in accordance with EPA Method 1. Sampling ports shall be provided which allow access to each sampling point. The ports shall be located so that the probe can be inserted perpendicular to the gas flow.

(d). Work Platforms.

1. Minimum size of the working platform shall be 24 square feet in area. Platforms shall be at least 3 feet wide.

2. On circular stacks with 2 sampling ports, the platform shall extend at least 110 degrees around the stack.

3. On circular stacks with more than two sampling ports, the work platform shall extend 360 degrees around the stack.

4. All platforms shall be equipped with an adequate safety rail (ropes are not acceptable), toeboard, and hinged floor-opening cover if ladder access is used to reach the platform. The safety rail directly in line with the sampling ports shall be removable so that no obstruction exists in an area 14 inches below each sample port and 6 inches on either side of the sampling port.

(e). Access to Work Platform.

1 Ladders to the work platform exceeding 15 feet in length shall have safety cages or fall arresters with a minimum of 3 compatible safety belts available for use by sampling personnel.

2. Walkways over free-fall areas shall be equipped with safety rails and toeboards.

(f). Electrical Power.

1. A minimum of two 120-volt AC, 20-amp outlets shall be provided at the sampling platform within 20 feet of each sampling port.

2. If extension cords are used to provide the electrical power, they shall be kept on the plant's property and be available immediately upon request by sampling personnel.

(g). Sampling Equipment Support.

1. A three-quarter inch eyebolt and an angle bracket shall be attached directly above each port on vertical stacks and above each row of sampling ports on the sides of horizontal ducts.

1. The bracket shall be a standard 3 inch x 3 inch x one-quarter inch equal-legs bracket which is 1 and one-half inches wide. A hole that is one-half inch in diameter shall be drilled through the exact center of the horizontal portion of the bracket. The horizontal portion of the bracket shall be located 14 inches above the centerline of the sampling port.

2. A three-eighth inch bolt which protrudes 2 inches from the stack may be substituted for the required bracket. The bolt shall be located 15 and one-half inches above the centerline of the sampling port.

3. The three-quarter inch eyebolt shall be capable of supporting a 500 pound working load. For stacks that are less than 12 feet in diameter, the eyebolt shall be located 48 inches above the horizontal portion of the angle bracket. For stacks that are greater than or equal to 12 feet in diameter, the eyebolt shall be located 60 inches above the horizontal portion of the angle bracket. If the eyebolt is more than 120 inches above the platform, a length of chain shall be attached to it to bring the free end of the chain to within safe reach from the platform.

2. A complete monorail or dualrail arrangement may be substituted for the eyebolt and bracket.

3. When the sample ports are located in the top of a horizontal duct, a frame shall be provided above the port to allow the sample probe to be secured during the test.

(7) Frequency of Compliance Tests. The following provisions apply only to those emissions units that are subject to an emissions limiting standard for which compliance testing is required.

(a) General Compliance Testing.

1. The owner or operator of a new or modified emissions unit that is subject to an emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining an operation permit for such emissions unit.

2. For excess emission limitations for particulate matter specified in Rule 62-210.700, F.A.C., a compliance test shall be conducted annually while the emissions unit is operating under soot blowing conditions in each federal fiscal year during which soot blowing is part of normal emissions unit operation, except that such test shall not be required in any federal fiscal year in which a fossil fuel steam generator does not burn liquid and/or solid fuel for more than 400 hours other than during startup.

3. The owner or operator of an emissions unit that is subject to any emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining a renewed operation permit. Emissions units that are required to conduct an annual compliance test may submit the most recent annual compliance test to satisfy the requirements of this provision. In renewing an air operation permit pursuant to Rule 62-210.300(2)(a)3.b., c., or d., F.A.C., the Department shall not require submission of emission compliance test results for any emissions unit that, during the year prior to renewal;

a. Did not operate; or

b. In the case of a fuel burning emissions unit, burned liquid and/or solid fuel for a total of no more than 400 hours.

4. During each federal fiscal year (October 1 — September 30), unless otherwise specified by rule, order, or permit, the owner or operator of each emissions unit shall have a formal compliance test conducted for:

a. Visible emissions, if there is an applicable standard;

b. Each of the following pollutants, if there is an applicable standard, and if the emissions unit emits or has the potential to emit; 5 tons per year or more of lead or lead compounds measured as elemental lead; 30 tons per year or more of acrylonitrile; or 100 tons per year or more of any other regulated air pollutant; and

c. Each NESHAP pollutant, if there is an applicable emission standard.

5. An annual compliance test for particulate matter emissions shall not be required for any fuel burning emissions unit that, in a federal fiscal year, does not burn liquid and/or solid fuel, other than during startup, for a total of more than 400 hours.

6. For fossil fuel steam generators on a semi-annual particulate matter emission compliance testing schedule, a compliance test shall not be required for any six-month period in which liquid and/or solid fuel is not burned for more than 200 hours other than during startup.

7. For emissions units electing to conduct particulate matter emission compliance testing quarterly pursuant to Rule 62-296.405(2)(a), F.A.C., a compliance test shall not be required for any quarter in which liquid and/or solid fuel is not burned for more than 100 hours other than during startup.

8. Any combustion turbine that does not operate for more than 400 hours per year shall conduct a visible emissions compliance test once per each five-year period, coinciding with the term of its air operation permit.

9. The owner or operator shall notify the Department, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

10. An annual compliance test conducted for visible emissions shall not be required for units exempted from air permitting pursuant to Rule 62-210.300(3), F.A.C.; units determined to be insignificant pursuant to Rule 62-213.300(2)(a)1., F.A.C., or Rule 62-213.430(6)(b), F.A.C.; or units permitted under the General Permit provisions in Rule 62-210.300(4)(a) or Rule 62-213.300 F.A.C., unless the general permit specifically requires such testing.

(b) Special Compliance Tests. When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it shall require the owner or operator of

the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department.

(c) Waiver of Compliance Test Requirements. If the owner or operator of an emissions unit that is subject to a compliance test requirement demonstrates to the Department, pursuant to the procedure established in Rule 62-297.620, F.A.C., that the compliance of the emissions unit with an applicable weight emission limiting standard can be adequately determined by means other than the designated test procedure, such as specifying a surrogate standard of no visible emissions for particulate matter sources equipped with a bag house or specifying a fuel analysis for sulfur dioxide emissions, the Department shall waive the compliance test requirements for such emissions units and order that the alternate means of determining compliance be used, provided, however, the provisions of Rule 62-297.310(7)(b), F.A.C., shall apply.

(8) Test Reports.

(a) The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Department on the results of each such test.

(b) The required test report shall be filed with the Department as soon as practical but no later than 45 days after the last sampling run of each test is completed.

(c) The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Department to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA or DEP Method 9 test, shall provide the following information:

1. The type, location, and designation of the emissions unit tested.

2. The facility at which the emissions unit is located.

3. The owner or operator of the emissions unit.

4. The normal type and amount of fuels used and materials processed, and the types and amounts of fuels used and material processed during each test run.

5. The means, raw data and computations used to determine the amount of fuels used and materials processed, if necessary to determine compliance with an applicable emission limiting standard.

6. The type of air pollution control devices installed on the emissions unit, their general condition, their normal operating parameters (pressure drops, total operating current and GPM scrubber water), and their operating parameters during each test run.

7. A sketch of the duct within 8 stack diameters upstream and 2 stack diameters downstream of the sampling ports, including the distance to any upstream and downstream bends or other flow disturbances.

8. The date, starting time and duration of each sampling run.

9. The test procedures used, including any alternative procedures authorized pursuant to Rule 62-297.620, F.A.C. Where optional procedures are authorized in this chapter, indicate which option was used.

10. The number of points sampled and configuration and location of the sampling plane.

11. For each sampling point for each run, the dry gas meter reading, velocity head, pressure drop across the stack, temperatures, average meter temperatures and sample time per point.

12. The type, manufacturer and configuration of the sampling equipment used.

13. Data related to the required calibration of the test equipment.

14. Data on the identification, processing and weights of all filters used.

15. Data on the types and amounts of any chemical solutions used.

16. Data on the amount of pollutant collected from each sampling probe, the filters, and the impingers, are reported separately for the compliance test.

17. The names of individuals who furnished the process variable data, conducted the test, analyzed the samples and prepared the report.

18. All measured and calculated data required to be determined by each applicable test procedure for each run.

19. The detailed calculations for one run that relate the collected data to the calculated emission rate.

20. The applicable emission standard, and the resulting maximum allowable emission rate for the emissions unit, plus the test result in the same form and unit of measure.

21. A certification that, to the knowledge of the owner or his authorized agent, all data submitted are true and correct. When a compliance test is conducted for the Department or its agent, the person who conducts the test shall provide the certification with respect to the test procedures used. The owner or his authorized agent shall certify that all data required and provided to the person conducting the test are true and correct to his knowledge.

62-297.330 Applicable Test Procedures. [Repealed]

62-297.340 Frequency of Compliance Tests. [Repealed]

62-297.345 Stack Sampling Facilities Provided by the Owner of an Emissions Unit. [Repealed]

62-297.350 Determination of Process Variables. [Repealed]

62-297.400 EPA Methods Adopted by Reference. [Repealed]

62-297.401 Compliance Test Methods.

This rule lists the test methods to be used where a compliance test is required by Department air pollution rule or air permit. The EPA test methods and quality assurance procedures listed in this rule and contained in 40 CFR Part 51, Appendix M, 40 CFR Part 60, Appendices A and F, 40 CFR Part 61, Appendices B and C and 40 CFR Part 63, Appendix A, are adopted and incorporated by reference at Rule 62-204.800, F.A.C. The EPA test methods that are adopted by reference at Rule 62-204.800, F.A.C., are adopted in their entirely except for those provisions referring to approval of alternative procedures by the Administrator. For purposes of this rule, such alternative procedures may only be approved by the Secretary or his or her designee in accordance with Rule 62-297.620, F.A.C.

(1)(a) EPA Method 1 — Sample and Velocity Traverses for Stationary sources — 40 CFR 60 Appendix A.

(b) EPA Method 1A — Sample and Velocity Traverses for Stationary Sources with Small Stacks or Ducts — 40 CFR 60 Appendix A.

(2) EPA Method 2 — Determination of Stack Gas Velocity and Volumetric Flow Rate — 40 CFR 60 Appendix A.

(a) EPA Method 2A — Direct Measurement of Gas Volume Through Pipes and Small Ducts — 40 CFR 60 Appendix A.

(b) EPA Method 2B — Determination of Exhaust Gas Volume Flow Rate from Gasoline Vapor Incinerators — 40 CFR 60 Appendix A.

(c) EPA Method 2C — Determination of Stack Gas Velocity and Volumetric Flow Rate in Small Stacks and Ducts (Standard Pitot Tube) — 40 CFR 60 Appendix A.

(d) EPA Method 2D — Measurement of Gas Volumetric Flow Rates in Small Pipes and Ducts — 40 CFR 60 Appendix A.

(e) EPA Method 2E — Determination of Landfill Gas; Gas Production Flow Rate — 40 CFR Part 60, Appendix A.

(3) EPA Method 3 — Gas Analysis for Carbon Dioxide, Oxygen, Excess Air, and Dry Molecular Weight — 40 CFR 60 Appendix A.

(a) EPA Method 3A — Determination of Oxygen and Carbon Dioxide Concentrations in Emissions from Stationary Sources (Instrumental Analyzer Procedure) — 40 CFR 60 Appendix A

(b) EPA Method 3B — Gas Analysis for the Determination of Emission Rate Correction Factor or Excess Air — 40 CFR Part 60, Appendix A.

(c) EPA Method 3C — Determination of Carbon Monoxide, Methane, Nitrogen, and Oxygen From Stationary Sources — 40 CFR Part 60, Appendix A.

(4) EPA Method 4 — Determination of Moisture Content in Stack Gases — 40 CFR 60 Appendix A.

(5) EPA Method 5 — Determination of Particulate Emissions from Stationary Sources — 40 CFR 60 Appendix A.

(a) EPA Method 5A — Determination of Particulate Emissions from the Asphalt Processing and Asphalt Roofing Industry — 40 CFR 60 Appendix A.

(b) EPA Method 5B — Determination of Nonsulfuric Acid Particulate Matter from Stationary Sources — 40 CFR 60 Appendix A.

(c) [Reserved]

(d) EPA Method 5D — Determination of Particulate Matter Emissions from Positive Pressure Fabric Filters — 40 CFR 60 Appendix A.

(e) EPA Method 5E — Determination of Particulate Emissions from the Wool Fiberglass Insulation Manufacturing Industry — 40 CFR 60 Appendix A.

(f) EPA Method 5F — Determination of Nonsulfate Particulate Matter from Stationary Sources — 40 CFR 60 Appendix A.

(g) EPA Method 5G — Determination of Particulate Emissions from Wood Heaters from a Dilution Tunnel Sampling Location — 40 CFR 60 Appendix A.

(h) EPA Method 5H — Determination of Particulate Emissions from Wood Heaters from a Stack Location — 40 CFR 60 Appendix A.

(6) EPA Method 6 — Determination of Sulfur Dioxide Emissions from Stationary Sources — 40 CFR 60 Appendix A.

(a) EPA Method 6A — Determination of Sulfur Dioxide, Moisture, and Carbon Dioxide Emissions From Fossil Fuel Combustion Sources — 40 CFR 60 Appendix A.

(b) EPA Method 6B — Determination of Sulfur Dioxide and Carbon Dioxide Daily Average Emissions From Fossil Fuel Combustion Sources — 40 CFR 60 Appendix A.

(c) EPA Method 6C — Determination of Sulfur Dioxide Emissions from Stationary Sources (Instrumental Analyzer Procedure) — 40 CFR 60 Appendix A.

(7) EPA Method 7 — Determination of Nitrogen Oxide Emissions from Stationary Sources — 40 CFR 60 Appendix A.

(a) EPA Method 7A — Determination of Nitrogen Oxide Emissions from Stationary Sources — Ion Chromatographic Method — 40 CFR 60 Appendix A.

(b) EPA Method 7B — Determination of Nitrogen Oxide Emissions from Stationary Sources (Ultraviolet Spectrophotometry) — 40 CFR 60 Appendix A.

(c) EPA Method 7C — Determination of Nitrogen Oxide Emissions from Stationary Sources - Alkaline—Permanganate/ - Colorimetric Method — 40 CFR 60 Appendix A.

(d) EPA Method 7D — Determination of Nitrogen Oxide Emissions from Stationary Sources - Alkaline—Permanganate/ - Ion Chromatographic Method — 40 CFR 60 Appendix A.

(e) EPA Method 7E — Determination of Nitrogen Oxide Emissions from Stationary Sources (Instrumental Analyzer Procedure) — 40 CFR 60 Appendix A.

(8) EPA Method 8 — Determination of Sulfuric Acid Mist and Sulfur Dioxide Emissions from Stationary Sources — 40 CFR 60 Appendix A.

(9)(a) EPA Method 9 — Visual Determination of the Opacity of Emissions from Stationary Sources — 40 CFR 60 Appendix A.

(b) Alternate Method 1 — Determination of the Opacity of Emissions from Stationary Sources Remotely by Lidar — 40 CFR 60 Appendix A.

(c) DEP Method 9. The provisions of EPA Method 9 (40 CFR 60, Appendix A) are adopted by reference with the following exceptions:

1. EPA Method 9, Section 2.4, Recording Observations. Opacity observations shall be made and recorded by a certified observer at sequential fifteen second intervals during the required period of observation.

2. EPA Method 9, Section 2.5, Data Reduction. For a set of observations to be acceptable, the observer shall have made and recorded, or verified the recording of, at least 90 percent of the possible individual observations during the required observation period. For single-valued opacity standards (e.g., 20 percent opacity), the test result shall be the highest valid six-minute average for the set of observations taken. For multiple-valued opacity standards (e.g., 20 percent opacity, except that an opacity of 40 percent is permissible for not more than two minutes per hour) opacity shall be computed as follows:

a. For the basic part of the standard (i.e., 20 percent opacity) the opacity shall be determined as specified above for a single-valued opacity standard.

b. For the short-term average part of the standard, opacity shall be the highest valid short-term average (i.e., two-minute, three-minute average) for the set of observations taken.

In order to be valid, any required average (i.e., a six-minute or two-minute average) shall be

based on all of the valid observations in the sequential subset of observations selected, and the selected subset shall contain at least 90 percent of the observations possible for the required averaging time. Each required average shall be calculated by summing the opacity value of each of the valid observations in the appropriate subset, dividing this sum by the number of valid observations in the subset, and rounding the result to the nearest whole number. The number of missing observations in the subset shall be indicated in parenthesis after the subset average value.

(10) EPA Method 10 — Determination of Carbon Monoxide Emissions from Stationary Sources — 40 CFR 60 Appendix A.

(a) EPA Method 10A — Determination of Carbon Monoxide Emissions in Certifying Continuous Emission Monitoring Systems at Petroleum Refineries — 40 CFR 60 Appendix.

(b) EPA Method 10B — Determination of Carbon Monoxide Emissions from Stationary Sources — 40 CFR 60 Appendix A.

(11) EPA Method 11 — Determination of Hydrogen Sulfide Content of Fuel Gas Streams in Petroleum Refineries — 40 CFR 60 Appendix A.

(12) EPA Method 12 — Determination of Inorganic Lead Emissions from Stationary Sources — 40 CFR 60 Appendix A.

(13) EPA Methods 13A and 13B.

(a) EPA Method 13A — Determination of Total Fluoride Emissions from Stationary Sources — SPADNS — Zirconium Lake Method — 40 CFR 60 Appendix A.

(b) EPA Method 13B — Determination of Total Fluoride Emissions from Stationary Sources — Specific Ion Electrode Method — 40 CFR 60 Appendix A.

(14) EPA Method 14 — Determination of Fluoride Emissions from Potroom Roof Monitors of Primary Aluminum Plants — 40 CFR 60 Appendix A.

(a) EPA Method 14A — Determination of Total Fluoride Emissions From Selected Sources at Primary Aluminum Production Facilities — 40 CFR Part 60, Appendix A.

(15) EPA Method 15 — Determination of Hydrogen Sulfide, Carbonyl Sulfide and Carbon Disulfide Emissions from Stationary Sources — 40 CFR 60 Appendix A.

(a) EPA Method 15A — Determination of Total Reduced Sulfur Emissions from Sulfur Recovery Plants in Petroleum Refineries — 40 CFR 60 Appendix A.

(16) EPA Method 16 — Semicontinuous Determination of Sulfur Emissions from Stationary Sources — 40 CFR 60 Appendix A.

(a) EPA Method 16A — Determination of Total Reduced Sulfur Emissions from Stationary Sources (Impinger Technique) — 40 CFR 60 Appendix A.

(b) EPA Method 16B — Determination of Total Reduced Sulfur Emissions from Stationary Sources — 40 CFR 60 Appendix A.

(17) EPA Method 17 — Determination of Particulate Emissions from Stationary Sources (In-Stack Filtration Method) — 40 CFR 60 Appendix A.

(18) EPA Method 18 — Measurement of Gaseous Organic Compound Emissions by Gas Chromatography — 40 CFR 60 Appendix A.

(19) EPA Method 19 — Determination of Sulfur Dioxide Removal Efficiency and Particulate, Sulfur Dioxide and Nitrogen Oxides Emission Rates — 40 CFR 60 Appendix A.

(20) EPA Method 20 — Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines — 40 CFR 60 Appendix A.

(21) EPA Method 21 — Determination of Volatile Organic Compound Leaks — 40 CFR 60 Appendix A.

(22) EPA Method 22 — Visual Determination of Fugitive Emissions from Material Sources and Smoke Emissions from Flares — 40 CFR 60 Appendix A.

(23) EPA Method 23 — Determination of Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans from Stationary Sources — 40 CFR 60 Appendix A.

(24) EPA Method 24 — Determination of Volatile Matter Content, Water Content, Density, Volume Solids, and Weight Solids of Surface Coatings — 40 CFR 60 Appendix A.

(a) EPA Method 24A — Determination of Volatile Matter Content and Density of Printing Inks and Related Coatings — 40 CFR 60 Appendix A.

(b) [Reserved]

(25) EPA Method 25 — Determination of Total Gaseous Nonmethane Organic Emissions as Carbon — 40 CFR 60 Appendix A.

(a) EPA Method 25A — Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer — 40 CFR 60 Appendix A.

(b) EPA Method 25B — Determination of Total Gaseous Organic Concentration Using a Nondispersive Infrared Analyzer — 40 CFR 60 Appendix A.

(c) EPA Method 25C — Determination of Nonmethane Organic Compounds (NMOC) in Municipal Solid Waste Landfill Gases — 40 CFR Part 60, Appendix A.

(d) EPA Method 25D — Determination of the Volatile Organic Concentration of Waste Samples — 40 CFR Part 60, Appendix A.

(e) EPA Method 25E — Determination of the Vapor Phase Organic Concentration of Waste Samples — 40 CFR Part 60, Appendix A.

(26) EPA Method 26 — Determination of Hydrogen Chloride Emissions From Stationary Sources — 40 CFR 60 Appendix A.

(a) EPA Method 26A — Determination of Hydrogen Halide and Halogen Emissions From Stationary Sources - Isokinetic Method — 40 CFR 60 Appendix A

(27) EPA Method 27 — Determination of Vapor Tightness of Gasoline Delivery Tank Using Pressure-Vacuum Test — 40 CFR 60 Appendix A.

(28) EPA Method 28 — Certification and Auditing of Wood Heaters — 40 CFR 60 Appendix A.

(a) EPA Method 28A — Measurement of Air to Fuel Ratio and Minimum Achievable Burn Rates for Wood-Fired Appliances — 40 CFR 60 Appendix A.

(29) EPA Method 29 — Determination of Metals Emission from Stationary Sources — 40 CFR 60 Appendix A.

(30) [Reserved]

(31) 40 CFR 60 Appendix F — Quality Assurance Procedures —.

(32) EPA Method 101 — Determination of Particulate and Gaseous Mercury Emissions from Chlor-Alkali Plants - Air Streams — 40 CFR 61 Appendix B.

(a) EPA Method 101A — Determination of Particulate and Gaseous Mercury Emissions from Sewage Sludge Incinerators — 40 CFR 61 Appendix B.

(33) EPA Method 102 — Determination of Particulate and Gaseous Mercury Emissions from Chlor-Alkali Plants - Hydrogen Streams — 40 CFR 61 Appendix B.

(34) EPA Method 103 — Beryllium Screening Method — 40 CFR 61 Appendix B.

(35) EPA Method 104 — Determination of Beryllium Emissions from Stationary Sources — 40 CFR 61 Appendix B.

(36) EPA Method 105 — Determination of Mercury in Wastewater Treatment Plant Sewage Sludges — 40 CFR 61 Appendix B.

(37) EPA Method 106 — Determination of Vinyl Chloride Emissions from Stationary Sources — 40 CFR 61 Appendix B.

(38) EPA Method 107 — Determination of Vinyl Chloride Content of Inprocess Wastewater Samples, and Vinyl Chloride Content of Polyvinyl Chloride Resin, Slurry, Wet Cake, and Latex

Samples — 40 CFR 61 Appendix B.

(a) EPA Method 107A — Determination of Vinyl Chloride Content of Solvents, Resin-Solvent Solution, Polyvinyl Chloride Resin, Resin Slurry, Wet Resin, and Latex

Samples — 40 CFR 61 Appendix B.

(39) EPA Method 108 — Determination of Particulate and Gaseous Arsenic Emissions — 40 CFR 61 Appendix B.

(a) EPA Method 108A — Determination of Arsenic Content in Ore Samples from Nonferrous Smelters — 40 CFR 61 Appendix B.

(b) EPA Method 108B — Determination of Arsenic Content in Ore Samples from Nonferrous Smelters — 40 CFR 61 Appendix B.

(c) EPA Method 108C — Determination of Arsenic Content in Ore Samples from Nonferrous Smelters — 40 CFR 61 Appendix B.

(40) 40 CFR 61 Appendix C — Quality Assurance Procedures.

(41) EPA Method 201 — Determination of PM_{10} Emissions (Exhaust Gas Recycle Procedure) — 40 CFR 51 Appendix M.

(a) EPA Method 201A — Determination of PM_{10} Emissions (Constant Sampling Rate Procedure) — 40 CFR 51 Appendix M.

(42) EPA Method 202 — Determination of Condensible Particulate Emissions from Stationary Sources — 40 CFR 51 Appendix M.

(43) EPA Method 301 — Field Data Validation Protocol — 40 CFR Part 63, Appendix A.

(44) EPA Method 303 — Coke Oven Door Emissions — 40 CFR Part 63, Appendix A.

(45) EPA Method 303A — Determination of Visible Emissions From Nonrecovery Coke Oven Batteries — 40 CFR Part 63, Appendix A.

(46) EPA Method 304A — Determination of Biodegradation Rates of Organic Compounds (Vent Option) — 40 CFR Part 63, Appendix A.

(47) EPA Method 304B — Determination of Biodegradation Rates of Organic Compounds (Scrubber Option) — 40 CFR Part 63, Appendix A.

(48) EPA Method 305 — Measurement of Emission Potential of Individual Volatile Organic Compounds in Waste — 40 CFR Part 63, Appendix A.

(49) EPA Method 306 — Determination of Chromium Emissions From Decorative and Hard Chromium Electroplating and Anodizing Operations — 40 CFR Part 63, Appendix A.

(50) EPA Method 306A — Determination of Chromium Emissions From Decorative and Hard Chromium Electroplating and Anodizing Operations — 40 CFR Part 63, Appendix A.

(51) EPA Method 306B — Surface Tension Measurement and Recordkeeping For Chromium Plating Tanks Used At Electroplating and Anodizing Facilities — 40 CFR Part 63, Appendix A.

(52) EPA Method 307 — Determination of Emissions From Halogenated Solvent Vapor Cleaning Machines Using a Liquid Level Procedure — 40 CFR Part 63, Appendix A.

(53) EPA Method 308 — Procedure for Determination of Methanol Emission From Stationary Sources — 40 CFR Part 63, Appendix A.

(54) EPA Method 310A — Determination of Residual Hexane Through Gas Chromatography — 40 CFR Part 63, Appendix A.

(55) EPA Method 310B — Determination of Residual Hexane Through Gas Chromatography — 40 CFR Part 63, Appendix A.

(56) EPA Method 310C — Determination of Residual n-Hexane in EPDM Rubber Through Gas Chromatography — 40 CFR Part 63, Appendix A.

(57) EPA Method 311 — Analysis of Hazardous Air Pollutant Compounds in Paints and Coatings by Direct Injection into a Gas Chromatograph — 40 CFR Part 63, Appendix A.

(58) EPA Method 312A — Determination of Styrene in Latex Styrene-Butadiene Rubber, Through Gas Chromatography — 40 CFR Part 63, Appendix A.

(59) EPA Method 312B — Determination of Residual Styrene in Styrene-Butadiene Rubber Latex (SBR) by Capillary Gas Chromatography — 40 CFR Part 63, Appendix A.

(60) EPA Method 312C — Determination of Residual Styrene in Styrene-Butadiene Rubber (SBR) Latex Produced by Emulsion Polymerization — 40 CFR Part 63, Appendix A

(61) EPA Method 313A — Determination of Residual Hydrocarbons in Rubber Crumb — 40 CFR Part 63, Appendix A.

(62) EPA Method 313B — The Determination of Residual Hydrocarbon in Solution Polymers by Capillary Gas Chromatography — 40 CFR Part 63, Appendix A.

(63) EPA Method 315 — Determination of Particulate and Methylene Chloride Extractable Matter (MCEM) from Selected Sources at Primary Aluminum Production Facilities — 40 CFR Part 63, Appendix A.

(64) EPA Method 319 — Determination of Filtration Efficiency for Paint Overspray Arrestors — 40 CFR Part 63, Appendix A.

(65) Determination of the Fraction Biodegraded (Fbio) in a Biological Treatment Unit — 40

CFR Part 63, Appendix A.

(66) Alternative Validation Procedure for EPA Waste and Wastewater Methods — 40 CFR Part 63, Appendix D.

62-297.411—62.297.424 [Repealed]

62-297.440 Supplementary Test Procedures.

The following test procedures are adopted by reference. Copies of these documents are available from the sources set forth below. Copies may also be inspected at the Department's Tallahassee Office.

(1) ASTM Methods. Standard Methods published by the American Society for Testing and Materials are available from the Society at 1916 Race Street, Philadelphia, Pennsylvania 19103.

(a) ASTM D 322-67, 1972. Standard Method of Test for Dilution of Gasoline Engine Crankcase Oils.

(b) ASTM D 396-76. Standard Specification for Fuel Oils, superceding ASTM D 396-69.

(c) ASTM D 2880-76. Standard Specification for Gas Turbine Fuel Oils, superceding ASTM D 2880-71.

(d) ASTM D 975-77. Standard Specification for Diesel Fuel Oils, superceding ASTM D 975-68.

(e) ASTM D 323-72. Standard Test Method for Vapor Pressure of Petroleum Products (Reid Method).

(f) ASTM D 97-66. Standard Test Method for Pour Point of Petroleum Oils.

(g) ASTM D 4057-88. Standard Practice for Manual Sampling of Petroleum and Petroleum Products.

(h) ASTM D 129-91. Standard Test Method for Sulfur in Petroleum Products (General Bomb Method).

(i) ASTM D 2622-94. Standard Test Method for Sulfur in Petroleum Products by X-Ray Spectrometry.

(j) ASTM D 4294-90. Standard Test Method for Sulfur in Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectroscopy.

(2) EPA Reports — EPA occasionally publishes test methods and emission control guidelines in a report format. These documents are available (unless otherwise stated) from the National Technical Information Services, 5286 Port Royal Road, Springfield, Virginia 22216, and may be inspected at the Department's Tallahassee Office.

(a) Petroleum Liquid Storage.

1. Control of Volatile Organic Emissions from Petroleum Liquid Storage in External Floating Roof Tanks, EPA 450/2-78-047, p. 5-3.

2. Control of Volatile Organic Emissions from Storage of Petroleum Liquids in Fixed- Roof Tanks, EPA 450/2-77-036, p. 6-2.

(b) Gasoline Bulk Terminals.

1. Vapor Control System Test.

a. VOC emissions from the vapor control system shall be determined by the method given in Appendix A of EPA 450/2-77-026, except that an adequate sampling time shall be at least six (6) hours of operation. For continuous vapor processing systems at least 80,000 gallons (302,800 liters) of gasoline shall be loaded during the test. For intermittent vapor processing systems, at least 80,000 gallons (302,800 liters) of gasoline shall be loaded during the test and at least two full cycles of operation of the vapor processing system shall occur. This test shall be performed prior to the date of compliance and annually thereafter. Test results records shall be maintained at the terminal until the subsequent annual test shall be made available to the Department upon request.

b. Control of Hydrocarbons from Tank Truck Gasoline Loading Terminals, EPA 450/2-77-026, Appendix A. Emission Test Procedure for Tank Truck Gasoline Loading Terminals.

2. Vapor Leak Detection.

a. During loading or unloading operations at bulk terminals, there shall be no reading greater than or equal to 100 percent of the lower explosive level (LEL), measured as propane at 1 in. (2.5 centimeters) around the perimeter of a potential leak source as detected by a combustible gas detector using the procedure described in Appendix B of EPA 450/2-78-051.

b. Control of Volatile Organic Compound Leaks from Gasoline Tank Trucks and Vapor Collection Systems, EPA 450/2-78-051, Appendix B, Gasoline Vapor Leak Detection Procedures by Combustible Gas Detector.

(c) Gasoline Service Stations.

1. Design Criteria for Stage I Vapor Control: Gasoline Service Stations, USEPA, OAQPS, ESED, November, 1975.

2. [Reserved]

(d) Non-destructive Control Devices.

1. Measurement of Volatile Organic Compounds, EPA 450/2-78-041, Attachment 3,

Alternate Test for Direct Measurement of Total Gaseous Organic Compounds Using a Flame Ionization Analyzer.

2. [Reserved]

(e) Perchloroethylene Dry Cleaning Systems.

1. Control of Volatile Organic Emissions from Perchloroethylene Dry Cleaning Systems, EPA 450/2-78-050, p. 6-3, Compliance Procedures, Liquid Leakage.

2. RACT Compliance Guidance for Carbon Absorbers on Perchloroethylene Dry Cleaners. Task No. 119, Contract No. 68-01-4147. EPA, DSSE, May, 1980, pp. 8-21, Appendices A and B.

(f) Cross Recovery Determination. When determining if a kraft recovery furnace is a straight kraft or cross recovery furnace the procedure in 40 CFR 60.285(d)(3) of Subpart BB shall be used.

(3) American Conference of Governmental Industrial Hygienists, Recommended Practices — Industrial Ventilation: A Manual of Recommended Practice. Equipment Specifications published in the 16th Edition of the Industrial Ventilation Manual (or any subsequent versions approved by the Department) are available from the American Conference of Governmental Industrial Hygienists, Committee on Industrial Ventilation, P. O. Box 16153, Lansing, Michigan 48901, and may be inspected at the Department's Tallahassee Office.

(4) American Petroleum Institute (API) Recommended Practices — These are available from the API, 2101 L Street, Northwest, Washington, D. C. 20037

(a) API Standard 650, Welded Steel Tanks for Oil Storage, Sixth Edition, Revision 1, May 15, 1978.

(b) API Publication 2517, Evaporation Loss from External Floating Roof Tanks, Second Edition, February, 1980.

(c) API 1004, Bottom Loading and Vapor Recovery for MC-306 Tank Motor Vehicles, Fourth Edition, September 1, 1977.

(5) Technical Association of the Pulp and Paper Industry (TAPPI), Test Methods — These are available from TAPPI, P. O. Box 105113, Atlanta, Georgia 30348.

(a) TAPPI Method T.624, Analysis of Soda and Sulfate White and Green Liquors.

(b) [Reserved]

(6) Sulphur Development Institute of Canada (SUDIC) Sampling and Testing Sulphur Forms — These are available from SUDIC, Box 950, Bow Valley Square 1, 830, 202-6 Avenue S. W., Calgary, Alberta T2P 2W6.

(a) S1-77. Collection of a Gross Sample of Sulphur.

(b) S2-77. Sieve Analysis of Sulphur Forms, except paragraph 4.3 concerning wet sieving is not adopted.

(c) S3-77. Determination of Material Finer than No. 50 (300um) Sieve in Sulphur Forms by Washing.

(d) S5-77. Determination of Friability of Sulfur Forms.

(7) EPA VOC Capture Efficiency Test Procedures. This rule lists the capture efficiency test procedure to be used where required by Department air pollution rule or air permit. The EPA test procedures listed in this rule and contained in 40 CFR Part 51, Appendix M, are adopted and incorporated by reference at Rule 62-204.800, F.A.C. The EPA test procedures that are adopted by reference at Rule 62-204.800, F.A.C., are adopted in their entirety except for those provisions referring to approval of alternative procedures by the Administrator. For purposes of this rule, such alternative procedures may only be approved by the Secretary or his or her designee in accordance with Rule 62-297.620, F.A.C. In addition, the EPA document GD-035, "Guidelines for Determining Capture Efficiency," dated January 9, 1995, is hereby adopted and incorporated by reference. A copy can be obtained by writing to: Department of Environmental Protection, Division of Air Resource Management, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.

(a) Method 204, Criteria for and Verification of a Permanent or Temporary Total Enclosure

(b) Method 204A, Volatile Organic Compounds Content in Liquid Input Stream

(c) Method 204B, Volatile Organic Compounds Emissions in Captured Stream

(d) Method 204C, Volatile Organic Compounds Emissions in Captured Stream, (Dilution Technique)

(e) Method 204D, Volatile Organic Compounds Emissions in Uncaptured Stream from Temporary Total Enclosure

(f) Method 204E, Volatile Organic Compounds Emissions in Uncaptured Stream from Building Enclosure.

(g) Method 204F, Volatile Organic Compounds Content in Liquid Input Stream (Distillation Approach).

62-297.450 EPA VOC Capture Efficiency Test Procedures.

(1) Applicability. The requirements set forth in Rules 62-297.450(2) and (3), F.A.C., shall apply to all regulated VOC emitting emissions units employing a control system pursuant to Rules 62-296.501 through 62-296.516, F.A.C., and Rule 62-296.800, F.A.C., except as provided in Rules 62-297.450(1)(a) and (b), F.A.C.

(a) If an owner or operator installs a Permanent Total Enclosure that meets the specifications of Method 204, adopted and incorporated by reference at Rule 62-204.800, F.A.C., and which directs all VOC to a control device, the capture efficiency is assumed to be 100 percent, and the facility owner or operator is exempted from the requirements described in Rule 62-297.450(2), F.A.C. This does not exempt the owner or operator from conducting any required control device efficiency test.

(b) If the owner or operator of an affected activity, process, or emissions unit uses a nondestructive control device designed to collect and recover VOC (e.g. carbon adsorber), an explicit measurement of capture efficiency is not necessary if the owner or operator is able to equate solvent usage with solvent recovery on a 24-hour (daily) basis, rather than a 30-day weighted average, and can determine this within 72 hours following each 24-hour period, and one of the following two criteria is also met:

1. The solvent recovery system (i.e., capture and control system) is dedicated to a single activity, process line, or emissions unit (e.g., one process line venting to a carbon adsorber system), or

2. The solvent recovery system controls multiple activities, process lines, or emissions units and the owner or operator is able to demonstrate that the overall control (i.e., the total recovered solvent VOC divided by the sum of liquid VOC input to all activities, process lines, or emissions units venting of the control system) meets or exceeds the most stringent emission standard applicable for any activity, process line, or emissions unit venting to the control system.

(c) If the conditions given above in Rule 62-297.450(1)(b), F.A.C., are met, the overall emission reduction efficiency of the system can be determined by dividing the recovered liquid VOC by the input liquid VOC. The general procedure for this determination is given in 40 CFR 60.433, which is adopted by reference at Rule 62-204.800, F.A.C.

(2) Specific Requirements. The capture efficiency of a capture system shall be determined using one of the following EPA procedures, or an alternate capture efficiency test procedure if approved by the Department under the provisions of Rule 62-297.620, F.A.C.

(2)(a) Gas/gas method using a Temporary Total Enclosure. The EPA specifications to determine whether an enclosure is considered a Temporary Total Enclosure are given in Method 204, adopted and incorporated by reference at Rule 62-204.800, F.A.C. The capture efficiency equation to be used for this procedure is:

$$CE = (G/(G+F)) \times 100$$

where:

F_B = mass of fugitive VOC that escapes from building enclosure.

Method 204B or Method 204C shall be used to obtain G. Method 204E shall be used to obtain F_BB.

(d) Liquid/gas method using the building or room in which the affected activity, process, or emissions unit located as the enclosure and in which L and F are measured while operating only the affected activity, process, or emissions unit. All fans and blowers in the building or room shall be operated as they would under normal production. The capture efficiency equation to be used for this procedure is:

$$CE = ((L-F_B)/L) \times 100$$

where:

CE = capture efficiency, percent,

L = mass of liquid VOC input to the activity, process, or emissions unit,

F_B = mass of fugitive VOC that escapes from building enclosure.

Method 204A or Method 204F shall be used to obtain L. Method 204E shall be used to obtain F_B

(e) Traditional liquid/gas method using the building or room in which the affected activity, process, or emissions unit is located as the enclosure and in which L and G are measured while operating only the affected activity, process, or emissions unit. All fans and blowers in the building or room shall be operated as they would under normal production conditions. The testing shall be conducted in accordance with Section 3.0 of EPA Emission Measurement Technical Information Center Guideline Document GD-035, "Guidelines for Determining Capture Efficiency," January 9, 1995, adopted by reference at Rule 62-297.440, F.A.C. Measurements shall be obtained using the EPA methods and procedures adopted by reference in this Chapter. The capture efficiency equation to be used for this procedure is:

$$CE = (G/L) \times 100$$

where:

CE = capture efficiency, percent,

G = mass of VOC captured and delivered to control device using Temporary Total Enclosure,

F = mass of fugitive VOC that escapes from a Temporary Total Enclosure.

Method 204B or Method 204C shall be used to obtain G. Method 204D shall be used to obtain F.

(b) Liquid/gas method using Temporary Total Enclosure. The EPA specifications to determine whether an enclosure is considered a Temporary Total Enclosure are given in Method 204, adopted and incorporated by reference at Rule 62-204.800, F.A.C. The capture efficiency equation to be used for this procedure is:

$$CE = ((L-F)/L) \times 100$$

where:

CE = capture efficiency, percent,

L = mass of liquid VOC input to the activity, process, or emissions unit,

F = mass of fugitive VOC that escapes from a Temporary Total Enclosure.

Method 204A or Method 204F shall be used to obtain L. Method 204D shall be used to obtain F.

(c) Gas/gas method using the building or room in which the affected activity, process, or emissions unit is located as the enclosure and in which G and F_B are measured while operating only the affected activity, process, or emissions unit. All fans and blowers in the building or room must be operated as they would under normal production. The capture efficiency equation to be used for this procedure is:

$$CE = (G/(G + F_B)) \times 100$$

where:

CE = capture efficiency, percent,

G = mass of VOC captured and delivered to a control device,

CE = capture efficiency, percent,

L = mass of liquid VOC input to the activity, process, or emissions unit,

G = mass of VOC captured and delivered to a control device.

Method 204A or Method 204F shall be used to obtain L. Method 204B or Method 204C shall be used to obtain G

(f) The use of the aggregate sampling procedure described in Section 4.1 of EPA Emission Measurement Technical Information Center Guideline Document GD-035, "Guidelines for Determining Capture Efficiency," January 9, 1995, adopted by reference at Rule 62-297.440, F.A.C., may be used only if specifically authorized as applicable to the facility in the State Implementation Plan.

(3) Sampling Requirements.

(a) Capture efficiency tests which use a total temporary enclosure or building enclosure with one of the liquid/gas or gas/gas methods identified in Rules 297.450(2)(a)through (d), F.A.C., shall consist of at least three sampling runs. Each run shall cover at least one complete production cycle, but shall be at least 3 hours long. The sampling time for each run need not exceed 8 hours, even if the production cycle has not been completed.

(b) Capture efficiency tests which use the traditional liquid/gas method identified in Rule 297.450 (2) (e), F.A.C., shall consist of the total number of runs needed to comply with either the data quality objective criteria or lower confidence limit criteria of Section 3.0 of EPA Emission Measurement Technical Information Center Guideline Document GD-035, "Guidelines for Determining Capture Efficiency," January 9, 1995, adopted by reference at Rule 62-297.440, F.A.C. However, each traditional liquid/gas capture efficiency test shall consist of at least 3 sampling runs. The sampling time for each run shall be neither less than 20 minutes nor more than 24 hours. All runs with a capture efficiency result of more than 105 percent shall be deemed invalid and discarded. Traditional liquid/gas capture efficiency tests shall also comply with all other provisions of Section 3.0 of Guideline Document GD-035.

(4) Recordkeeping and Reporting.

(a) The owner or operator of an affected activity, process, or emissions unit shall submit to the Department a list of the procedures that will be used for the capture efficiency tests at the owner or operator's facility. A copy of the list shall be kept on file at the affected facility.

(b) Required test reports shall be submitted to the Department within forty-five (45) days of the test date. A copy of the results shall be kept on file at the facility.

(c) If any physical or operational change is made to a control system, the owner or operator of the affected facility shall notify the Department of the change within ten (10) working days after making such change. The Department shall require the owner or operator of the affected activity,

process, or emissions unit to conduct a new capture efficiency test if the Department has reason to believe (based on engineering calculations or empirical evidence) that a physical or operational change made to the capture system has decreased the overall emissions reduction efficiency of the system.

(d) Notwithstanding the provisions of Rule 62-297.340(1), F.A.C., the owner or operator of an affected activity, process, or emissions unit shall notify the Department thirty (30) days prior to performing any capture efficiency and/or control efficiency tests.

(e) The owner or operator of an affected activity, process, or emissions unit using a Permanent Total Enclosure shall demonstrate that this enclosure meets the requirements given in Method 204 for a Permanent Total Enclosure during any required control device efficiency test.

(f) The owner or operator of an affected activity, process, or emissions unit using a Temporary Total Enclosure shall demonstrate that this enclosure meets the requirements given in Method 204 for a Temporary Total Enclosure during any required control device efficiency test.

62-297.500 Continuous Emission Monitoring Requirements. [Repealed]

62-297.520 EPA Continuous Monitor Performance Specifications.

This rule lists the continuous monitor performance specifications to be used where required by Department air pollution rule or air permit. The EPA performance specifications listed in this rule and contained in 40 CFR 60, Appendix B, are adopted and incorporated by reference in Rule 62-204.800, F.A.C. The EPA performance specifications that are adopted by reference at Rule 62-204.800, F.A.C., are adopted in their entirety except for those provisions referring to approval of alternative procedures by the Administrator. For purposes of this rule, such alternative procedures may only be approved by the Secretary or his or her designee in accordance with Rule 62-297.620, F.A.C.

(1) Performance Specification 1—Specifications and Test Procedures for Opacity Continuous Emission Monitoring Systems in Stationary Sources.

(2) Performance Specification 2—Specifications and Test Procedures for SO_2 and NO_x Continuous Emission Monitoring Systems in Stationary Sources.

(3) Performance Specification 3—Specifications and Test Procedures for O_2 and CO_2 Continuous Emission Monitoring Systems in Stationary Sources.

(4) Performance Specification 4—Specifications and Test Procedures for Carbon Monoxide Continuous Emission Monitoring Systems in Stationary Sources.

(5) Performance Specification 4A—Specifications and Test Procedures for Carbon Monoxide Continuous Emission Monitoring Systems in Stationary Sources.

(6) Performance Specification 5—Specifications and Test Procedures for TRS Continuous

Emission Monitoring Systems in Stationary Sources.

(7) Performance Specification 6—Specifications and Test Procedures for Continuous Emission Rate Monitoring Systems in Stationary Sources.

(8) Performance Specification 7—Specifications and Test Procedures for Hydrogen Sulfide Continuous Emission Monitoring Systems in Stationary Sources.

(9) Performance Specification 8 — Performance Specifications for Volatile Organic Compound Continuous Emission Monitoring Systems in Stationary Sources.

(10) Performance Specification 9 — Specifications and Test Procedures for Gas Chromatographic Continuous Emission Monitoring Systems in Stationary Sources.

62-297.570 Test Report. [Repealed]

62-297.620 Exceptions and Approval of Alternate Procedures and Requirements.

(1) The owner or operator of any emissions unit subject to the provisions of this chapter may request in writing a determination by the Secretary or his/her designee that any requirement of this chapter (except for any continuous monitoring requirements) relating to emissions test procedures, methodology, equipment, or test facilities shall not apply to such emissions unit and shall request approval of an alternate procedures or requirements.

(2) The request shall set forth the following information, at a minimum:

(a) Specific emissions unit and permit number, if any, for which exception is requested.

(b) The specific provision(s) of this chapter from which an exception is sought.

(c) The basis for the exception, including but not limited to any hardship which would result from compliance with the provisions of this chapter.

(d) The alternate procedure(s) or requirement(s) for which approval is sought and a demonstration that such alternate procedure(s) or requirement(s) shall be adequate to demonstrate compliance with applicable emission limiting standards contained in the rules of the Department or any permit issued pursuant to those rules.

(3) The Secretary or his/her designee shall specify by order each alternate procedure or requirement approved for an individual emissions unit source in accordance with this section or shall issue an order denying the request for such approval. The Department's order shall be final agency action, reviewable in accordance with Section 120.57, Florida Statutes.

(4) In the case of an emissions unit which has the potential to emit less than 100 tons per year of particulate matter and is equipped with a baghouse, the Secretary or the appropriate Director of District Management may waive any particulate matter compliance test requirements for such emissions unit specified in any otherwise applicable rule, and specify an alternative standard of 5%

opacity. The waiver of compliance test requirements for a particulate emissions unit equipped with a baghouse, and the substitution of the visible emissions standard, shall be specified in the permit issued to the emissions unit.

If the Department has reason to believe that the particulate weight emission standard applicable to such an emissions unit is not being met, it shall require that compliance be demonstrated by the test method specified in the applicable rule.

Chapter 62-300 - Division of Water Management — Description of Organization [Repealed]

 **History**

Chapter 62-301 - Surface Waters of the State

 **History**

62-301.100 Findings, Declaration and Intent.

It is the intent of this Chapter to define the landward extent of surface waters of the state. The findings, declarations, and intent for this Chapter are the same as those for Chapter 62-302.

62-301.200 Definitions.

Definitions in other Chapters of the Department's rules may be used to clarify the meaning of terms used in this Chapter unless the terms are defined in Section 62-3.021, F.A.C., or unless transfer of such definition would defeat the purpose or alter the intended effect of the provisions of this Chapter.

(1) "Acute Toxicity" shall mean the presence of one or more substances or characteristics or components of substances in amounts which:

(a) Are greater than one-third (ø) of the amount lethal to 50% of the test organisms in 96 hours (96 hr LC_{50}) where the 96 hr LC_{50} is the lowest value which has been determined for a species significant to the indigenous aquatic community; or

(b) May reasonably be expected, based upon evaluation by generally accepted scientific

Department of Environmental Protection

Jeb Bush
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

David B. Struhs
Secretary

NOTICE OF PERMIT ISSUANCE

In the matter of an
Application for Permit by:

Mr. Howard H. Hewitt, Partner
C.R. 466-A Landfill, L.L.C.
P.O. Box 490697
Leesburg, FL 34749-0697

DEP File No. 1190036-001-AC
Sumter County

Enclosed is Permit Number 1190036-001-AC for the construction of an air curtain incinerator, issued pursuant to Section 403.087, Florida Statutes.

Any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statutes, by filing a Notice of Appeal under Rule 9.110 of the Florida rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice must be filed within thirty days after this order is filed with the clerk of the Department.

Executed in Tampa, Florida.

Sincerely,

James L. McDonald
Air Permitting Engineer

cc: Mr. Kenneth R. Wicks, P.E.
Wicks Consulting Services, Inc.
225 West Main Street
Tavares, FL 32778

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE and all copies were sent by regular mail before the close of business on APR 0 4 2002 to the listed persons, unless otherwise noted.

Clerk Stamp

FILING AND ACKNOWLEDGEMENT FILED, on this date, pursuant to Section 120.52(7), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Patricia Strickett (Clerk) APR 0 4 2002 (Date)

Department of Environmental Protection

Jeb Bush
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

David B. Struhs
Secretary

PERMITTEE:
C.R. 466-A Landfill, L.L.C.
P.O. Box 490697
Leesburg, FL 34749-0697

Permit No.: 1190036-001-AC
County: Sumter
Effective Date: 04/04/2002
Expiration Date: 07/05/03
Project: Air Curtain Incinerator

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-204 through 62-297 & 62-4. 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 department and made a part hereof and specifically described as follows:

For the construction of a non-relocatable A.B.I., Air Curtain Incinerator, Model F-045 at a natural non-Title V facility. The incinerator is subject to the requirements of 40 CFR 60, Subpart CCCC and Rules 62-296.401(2)(h) & 62-296.401(7), F.A.C. The incinerator's maximum material charging rate is 1.4 tons/hr. (daily average) and the maximum limit on the hours of charging is 2,500 hours per any consecutive 12 month period. The incinerator's earthen burning pit is not refractory lined and is 35 ft. long x 12 ft. wide x 10 ft. deep. Emissions from the incinerator will be controlled by forced air at a very high static pressure over and around the burning pit, which has vertical walls.

Air is supplied to the air curtain incinerator by a 67 HP diesel-powered fan, which is considered exempt from permitting per Rule 62-4.040, F.A.C.

Locations: At a construction and demolition landfill; on the west side of the Sumter/Lake County line and on the south side of C.R. 466A.

UTM: Latitude 28°51'27" Longitude 81°57'22"

Facility ID: 1190036 Emission Unit ID: 001

NOTE: Please reference the Permit No., Facility ID, and Emission Unit ID in all correspondence, test report submittals, applications, etc.

Replaces Permit No.: N/A

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions. [Rule 62-4.160, F.A.C.]

2. This incinerator is subject to the requirements of 40 CFR 60, Subpart CCCC, Standards of Performance for Commercial and Industrial Solid Waste Incineration Units for Which Construction Is Commenced After November 30, 1999 or for Which Modification or Reconstruction Is Commenced on or After June 1, 2001. [Rule 62-204.800(7)(b)74., F.A.C.]

{Permitting Note: The following conditions/terms noted in "*italics*" are, as of the effective date of this permit, currently undergoing the rulemaking process to Rule 62-296.401, F.A.C., to incorporate the U.S. EPA already-in-effect requirements of 40 CFR 60, Subpart CCCC. 40 CFR 60, Subpart CCCC, is adopted and incorporated by reference in Rule 62-204.800(7)(b)74., F.A.C. Since the rule making process may result in minor changes to those conditions/terms, the Department may be required to change the conditions/terms at a later date. }

3. *The unit shall comply with all standards, limitations, and requirements of 40 CFR Part 60, to which it is subject, and with the requirements in Rules 62-296.401(7)(a)1.-18. and 62-296.401(2)(h), F.A.C., to the extent that those requirements are stricter than, or supplemental to, the requirements of 40 CFR Part 60 Subpart AAAA, BBBB, CCCC, or DDDD. [Rules 62-296.401(2)(h) and 62-296.401(7)(a), F.A.C.]*

{Permitting Note: The conditions of this permit include the requirements referenced in the underlined portion of Specific Condition No. 3 above.}

4. The maximum charging rate to the incinerator shall not exceed 1.4 tons/hr. (daily average basis) and 3,500 tons per any consecutive 12 month period. The charging rate going into the pit shall be determined by the following procedure: The loader used to charge the pit shall weigh 5 buckets (rakes) at a representative maximum capacity and representative material to be charged into the burn pit. This average, along with the number of charges, shall then be used to determine the hourly process rate. In addition, the loader bucket (rake) that will be used to charge the pit shall be designated as the only one used in charging the pit. If a different or alternate sized loader is used a new average shall be determined and noted in the facility's records/logs. [Rules 62-212.300, 62-296.401(7)(a)10., and 62-4.070(3), F.A.C.; Requested by permittee in construction application dated December 21, 2001]

5. The operating (charging) hours of this incinerator shall not exceed 2,500 hours per any consecutive 12 month period. [Requested by permittee in construction application dated December 21, 2001]

6. Outside of startup procedures, visible emissions *shall not exceed 10% opacity.* [Rule 62-296.401(7)(a)1., F.A.C.] **Note, until the preceding rule is promulgated the permittee shall also comply with the current State's rule, Rule 62-296.401(7)(a), F.A.C. This rule states, "Outside of startup periods, no visible emission (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."**

* Please note that in order to comply with the existing state opacity standard for stationary air curtain incinerators found in Rule 62-296.401(7)(a), F.A.C., and the new federal New Source Performance Standard (NSPS) found in 40 CFR 60, Subpart CCCC, adopted and incorporated by reference in Rule 62-204.800(7)(b)74., F.A.C., the operator must ensure that, outside of the first 30 minutes of daily operation, the opacity does not exceed 5%, except that an opacity of up to 10% is allowed for up to 3 minutes each hour. When this opacity condition is met, both DEP Method 9 and EPA Method 9 (see Specific Condition Nos. 29 & 30) will show compliance with both the federal NSPS and the state opacity standard.

7. During startup periods, which shall not exceed the first 30 minutes of operation, an opacity of up to 35%, averaged over a six-minute period, shall be allowed. [Rule 62-296.401(7)(a)2., F.A.C.]

8. The general excess emissions rule, Rule 62-210.700, F.A.C., to handle start-ups, shutdowns, and malfunctions, shall not apply to air curtain incinerators. [Rule 62-296.401(7)(a)3., F.A.C.]

9. The following dimensions for the pit must be strictly adhered to: no more than 12 feet wide, between 8 and 15 feet deep, and no longer than the length of the manifold. *Pit width, length, and side walls shall be properly maintained so that combustion of the waste within the pit will be maintained at an adequate temperature and with sufficient air recirculation to provide enough residence time for mixing for complete combustion and control of emissions.* The pit shall not be dug within a previously active portion of *a* landfill. [Rule 62-296.401(7)(a)4., F.A.C.]

10. The only materials that *shall* be burned in an air curtain incinerator are wood waste, *yard waste*, and clean lumber. [Rules 62-296.401(2)(h)3. and 62-296.401(7)(a)5., F.A.C.]

11. The burning of sawdust, paper, paper, trash, tires, garbage, *rubber material*, plastics, liquid wastes, *Bunker C residual oil, roofing materials, tar, asphalt, railroad cross ties or other creosoted lumber*, chemically treated or painted wood, and other similar materials *in any air curtain incinerator* is expressly prohibited. [Rules 62-296.401(2)(h)3. and 62-296.401(7)(a)6., F.A.C.]

12. Only virgin oil, natural gas, or liquefied petroleum gas may be used to start the fire *in an air curtain incinerator*. The use of waste oil, chemicals, gasoline, or tires is expressly prohibited. [Rule 62-296.401(7)(a)7., F.A.C.]

13. *Biological waste shall not be combusted in an air curtain incinerator. [Rule 62-296.401(2)(h), F.A.C.]*

14. In no case shall an air curtain incinerator be started before sunrise. For *all* air curtain incinerators, charging must have completely stopped before sunset. [Rule 62-296.401(7)(a)8., F.A.C.]

15. *An air curtain incinerator shall be attended at all times while materials are being burned. During such times as the air curtain incinerator is not in operation, public access to the incinerator shall be restricted. [Rule 62-296.401(7)(a)9., F.A.C.]*

16. *Stationary* air curtain incinerators must be located at least *three hundred (300)* feet from any occupied building located off site. [Rule 296.401(7)(a)11., F.A.C.]

17. Air curtain incinerators used at landfills may not 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 gated or check-in station. [Rule 62-296.401(7)(a)12., F.A.C.]

18. 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)(a)13., F.A.C.]

19. Ash shall not be allowed to build up in the pit *of an air curtain incinerator* to higher than 1/3 the pit depth or to the point where the ash begins to impede combustion, which occurs first. [Rule 62-296.401(7)(a)14., F.A.C.]

20. The pit shall be marked with an indicator to show the 1/3 depth. [Rule 62-4.070(3), F.A.C.]

21. *An* operation and maintenance guide must be available to the operators *of an air curtain incinerator* at all times, and the permittee *shall* provide training to all operators before they work at the incinerator. The Department may request a copy of this guide. [Rule 62-296.401(7)(a)15., F.A.C.]

22. Each trained operator shall receive a certificate demonstrating that the operator has successfully passed the training required by the operation and maintenance guide. During the tenure of the operator, a copy of this certificate shall be kept on file at the facility and be made available to the Department upon request. [Rule 62-4.070(3), F.A.C.]

23. This facility shall not cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. [Rules 62-296.320(2) and 62-296.401(1)(b), F.A.C.]

24. A daily operating log shall be kept and at a minimum contain the following:

A. Date
B. Type of starter fuel used.
C. Total charges.
D. Default charging rate and identification of the rake used.
E. Total material (in tons) charged.
F. Daily operating (charging) hours, which includes the start of initial combustion to the time of the last charge to the incinerator (Start and Stop Times shall be indicated).
G. Daily, calculate the hourly charging rate (tons/hr.).
H. Monthly, provide the most recent consecutive 12 month period total of operating (charging) hours.
I. Monthly, provide the most recent consecutive 12 month period total for the amount of material charged in tons.
J. Type of Maintenance Performed
K. Comments
L. Operator's signature

The log shall be maintained at the facility for at least 5 years and shall be made available to the Department upon request. [Rule 62-4.070(3), F.A.C.]

25. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter. These provisions are applicable to any source, including, but not limited to vehicular movement, transportation of materials, construction, alteration, demolition or

wrecking, or industrial related activities such as loading, unloading, storing and handling. Reasonable precautions shall include the following:

- Ash removed from the pit shall be wetted with water, prior to removal, and as necessary.
- Ash removed from the pit shall be wetted with water, as necessary, to ensure the ash does not become airborne or begin to smolder.
- Water shall be applied as necessary to the facility grounds.
- Reasonable care shall be taken in loading and unloading the pit.

[Rule 62-296.320(4)(c), F.A.C.]

26. In order to ensure the visible emission limitations are not exceeded and objectionable odors are not generated, the air curtain incinerator's fan shall continue to operate after the last charge of each day until all combustion has ceased. For purposes of this condition, "combustion" means the presence of any flames or smoke that causes a visible emission greater than 5% opacity. [Rules 62-210.200(278) - Definition of Visible Emission and 62-4.070(3), F.A.C.]

27. Test the air curtain incinerator for visible emissions within 60 days after reaching the maximum permitted charging rate of 1.4 tons/hr. (daily average), but no later than 180 days after its initial startup and annually thereafter. Submit a copy of the **initial** test data to the Air Permitting Section of the Department's Southwest District Office within 45 days of such testing and by the 180th day after the initial startup in conjunction with an air operation permit application. Subsequent annual test reports shall be submitted within 45 days of testing. All submitted compliance test reports shall include a copy of the daily log for each test day along with the charging rate, description of materials burned, and starter fuel used during the test period. *Initial and annual opacity test results shall be submitted as electronic or paper copy on or before the applicable submittal date.* [Rules 62-296.401(2)(h)4. & 7., 62-297.310(7) and 62-297.310(8)(b), F.A.C.]

28. Testing of emissions must be conducted within 90-100% of the maximum allowable charging rate* of 1.4 tons/hr. A compliance test submitted at a rate less than 90% of the maximum permitted charging rate will automatically constitute an amended permitted charging rate at that lesser rate, plus 10%. Within 30 days of that lower amended permitted charging rate being exceeded, a new compliance test shall be conducted at no less than that higher rate and no greater than 1.4 tons/hr. The test results shall be submitted to the Air Compliance Section of the Department's Southwest District Office within 45 days of testing. Acceptance of the test by the Department will automatically constitute an amended permit at the higher charging tested rate, plus 10%, but in no case shall the maximum permitted charging rate of 1.4 tons/hr. be exceeded. The emission limitations shall not change.

* Charging rate is defined as 1) the amount of material placed in the incinerator during the period starting with the initial loading and ending 60 minutes after initial combustion, for the first 60 minute period after initial combustion and 2) the amount of material placed in the incinerator for any 60-minute period thereafter.

[Rules 62-4.070(3) and 62-297.310(2), F.A.C.]

29. The *reference* test method for visible emissions shall be *EPA* Method 9, *as described in 40 CFR Part 60, Appendix A, adopted and* incorporated *by reference at Rule 62-204.800,* F.A.C. [Rule 62-296.401(7)(a)16., F.A.C.]

30. Test procedures shall *conform to the procedures specified in Rule* 62-297.*310,* F.A.C. [Rule 62-296.401(7)(a)17., F.A.C.]

31. The visible emission test shall be conducted when the highest emissions can reasonably be expected to occur. The visible emission test report shall include the charging rate, description of materials burned, starter fuel used, and a copy of the daily operating log for the test day. The EPA Method No. 9 test interval on this source shall be at least 60 minutes and meet all the applicable requirements of Chapter 62-297, F.A.C. The visible emission test shall begin upon initial combustion and include the first 60* minutes of the burn (30 minutes start-up and 30 minutes normal operation). In order to determine compliance and maximize the conditions for conducting a valid visible emission test, the Department reserves the right to require the air curtain incinerator to be repositioned, for example, with the incinerator's long axis in a north to south direction. [Rules 62-296.401(7)(o), 62-297.310(4)(a)2. and 62-4.070(3), F.A.C.]

* **Note, until Rule 62-296.401(7)(a)16., F.A.C., in Specific Condition No. 29 is promulgated, the permittee shall also comply with the current State's rule, Rule 62-296.401(7)(o)1., F.A.C. This rule states, "The test method for visible emissions shall be DEP Method 9, incorporated in Chapter 62-297, F.A.C." In order to comply with the State's current rule, the visible emission test shall begin upon initial combustion and include the first 90 minutes of the burn (30 minutes start-up and 60 minutes normal operation).**

32. *Records of the results of all initial and annual opacity tests shall be kept onsite in either paper copy or electronic format, for at least 5 years. These records shall be made available to the permitting authority or for an inspector's onsite review upon request. [Rule 62-296.401(2)(h)6., F.A.C.]*

33. For only the initial emission compliance tests, the permittee shall provide the Air Compliance Section of this office at least 30 days prior notice of any performance tests. The notice shall contain the date on which each formal compliance test is to begin of the date, time and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted. [Rule 62-297.310(7)(a)9., F.A.C. and 40 CFR 60.8(d)]

34. After the initial emission compliance tests, the permittee shall notify the Air Compliance Section of this office at least 15 days prior to the date on which each formal compliance test is to begin of the date, time and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted. [Rule 62-297.310(7)(a)9., F.A.C.]

35. The permittee shall provide written notification to the Air Compliance Section of this office as follows:

A. The date construction is commenced, postmarked no later than 30 days after such date, pursuant to 40 CFR 60.7(a)(1).
B. The anticipated date of initial startup, postmarked not more than 60 days nor less than 30 days prior to such date, pursuant 60 CFR 60.7(a)(2).
C. The actual date of initial startup, postmarked within 15 days after such date, pursuant 40 CFR 60.7(a)(3).

[40 CFR 60.7, 40 CFR 60.670(f), and Rule 62-204.800(7), F.A.C.]

36. The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; or any malfunction of the air pollution control equipment. The records shall be recorded in a permanent form suitable for inspection and shall be retained for at least 5 years. [Rule 62-204.800(7), F.A.C. and 40 CFR 60.7(b)]

37. *Nothing in this rule (Rule 62-296.401(7)(a), F.A.C.), shall relieve the owner or operator from any requirement for obtaining authorization to use an air curtain incinerator, when necessary, from the Division of Forestry, or any local fire control authority. [Rule 62-296.401(7)(a)18., F.A.C.]*

38. The exempt from permitting "diesel powered fan" shall not cause visible emissions equal to or greater than 20% opacity, in accordance with the facility-wide visible emission limitation of Rule 62-296.310(4)(b), F.A.C. This rule does not require testing annually or prior to permit renewal. Special visible emission compliance testing of the diesel powered fan may be required to be conducted. [Rule 62-297.310(7)(b), F.A.C.]

39. Each time the incinerator is re-positioned to a different area of the landfill, the permittee shall notify the Air Compliance Section of this office in writing of the date the incinerator was moved within 5 calendar days of that date. The notice shall include a sketch/diagram of the new location. [Rule 62-4.070(3), F.A.C.]

40. An application for an operating permit shall be submitted to the Air Permitting Section of this office within 45 days of testing or at least 180 days prior to the expiration date of this permit, whichever occurs first (also see Condition No. 27). Be sure to attach to the application, copies of at least 2 recent weeks of daily operating logs and a copy of the visible emission test report. [Rules 62-4.070(3), 62-210.300(2), 62-296.310(7)(a)1., and 62-297.310(8)(b), F.A.C.]

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Gerald J. Kissel, P.E.
Air Permitting Supervisor

ATTACHMENT - GENERAL CONDITIONS

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 (F.S.). 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), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither 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 is not 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 this permit.

4. Not applicable to Air Permits.

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 and at reasonable times, access to the premises where the permitted activity is located or conducted to:

   a. Have access to and copy any records that must be kept under conditions of the permit;

GENERAL CONDITIONS:

b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and

c. Sample or monitor any substances or parameters at any location reasonable 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 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 prescribed by Section 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the 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 Rule 62-4.120 and 62-730.300 F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

GENERAL CONDITIONS:

13. This permit also constitutes:

( ) Determination of Best Available Control Technology (BACT)
( ) Determination of Prevention of Significant Deterioration (PSD)
( ) Compliance with New Source Performance Standards (NSPS)

14. 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:

1. the date, exact place, and time of sampling or measurements;
2. the person responsible for performing the sampling or measurements;
3. the dates analyses were performed;
4. the person responsible for performing the analyses;
5. the analytical techniques or methods used;
6. the results of such analyses.

15. 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.

16. Not applicable to Air Permits.

17. Not applicable to Air Permits.

Department of
Environmental Protection

Division of Air Resources Management

APPLICATION FOR AIR PERMIT - NON-TITLE V SOURCE

See Instructions for Form No. 62-210.900(3)

I. APPLICATION INFORMATION

Identification of Facility

1. Facility Owner/Company Name:
C.R. 466-A Landfill L.L.C.

2. Site Name:
C.R. 466-A C & D Landfill Facility

3. Facility Identification Number: ☐ Unknown
FDEP Air Permit No. 1190036-001-AC, Landfill Permit No. 172478-003

4. Facility Location:
Street Address or Other Locator: 8979 C.R. 466-A
City: Wildwood County: Sumter Zip Code: 34785

5. Relocatable Facility? ☐ Yes ☒ No

6. Existing Permitted Facility? ☒ Yes ☐ No

Application Contact

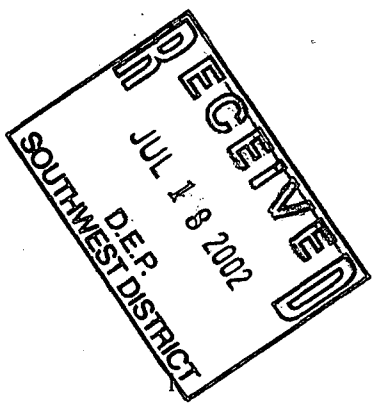
1. Name and Title of Application Contact:
Howard H. Hewitt, Partner

2. Application Contact Mailing Address:
Organization/Firm: C.R. 466-A Landfill, L.L.C.
Street Address: P.O. Box 490697
City: Leesburg State: Florida Zip Code: 34749-0697

3. Application Contact Telephone Numbers:
Telephone: 352-787-5651 Fax: 352-787-5199

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	07 - 18 - 2002
2. Permit Number:	1190036-002-AO / 1190036-003-AC



Purpose of Application

Air Operation Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

☐ Initial non-Title V air operation permit for one or more existing, but previously unpermitted, emissions units.

☒ Initial non-Title V air operation permit for one or more newly constructed or modified emissions units.

Current construction permit number: 1190036-001-AC

☐ Non-Title V air operation permit revision to address one or more newly constructed or modified emissions units.

Current construction permit number: _____

Operation permit number to be revised: _____

☐ Initial non-Title V air operation permit under Rule 62-210.300(2)(b), F.A.C., for an existing facility seeking classification as a synthetic non-Title V source.

Current operation/construction permit number(s): _____

☐ Non-Title V air operation permit revision for a synthetic non-Title V source. Give reason for revision; e.g., to address one or more newly constructed or modified emissions units.

Operation permit number to be revised: _____

Reason for revision: _____

Air Construction Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

☐ Air construction permit to construct or modify one or more emissions units.

☐ Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.

☐ Air construction permit for one or more existing, but unpermitted, emissions units.

Owner/Authorized Representative

1. Name and Title of Owner/Authorized Representative:
Howard H. Hewitt, Partner

2. Owner/Authorized Representative Mailing Address:
Organization/Firm: C.R. 466-A Landfill, L.L.C.
Street Address: P.O. Box 490697
City: Leesburg State: Florida Zip Code: 34749-0697

3. Owner/Authorized Representative Telephone Numbers:
Telephone: 352-787-5651 Fax: 352-787-5199

4. Owner/Authorized Representative Statement:

I, the undersigned, am the owner or authorized representative of the facility addressed in this application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.*

Howard H. Hewitt 7-10-02

Signature Date

* Attach letter of authorization if not currently on file.

Professional Engineer Certification

1. Professional Engineer Name: Kenneth R. Wicks, P.E.
Registration Number: 33274

2. Professional Engineer Mailing Address:
Organization/Firm: Wicks Consulting Services, Inc.
Street Address: 225 West Main Street
City: Tavares State: Florida Zip Code: 32778

3. Professional Engineer Telephone Numbers:
Telephone: 352-343-8667 Fax: 352-343-8665

4. Professional Engineer Statement

I, the undersigned, hereby certify, except as particularly noted herein, that:*

(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and

(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here ☐, if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here ☒, if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

Signature

9/17/02
Date

(seal)

* Attach any exception to certification statement.

Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type	Processing Fee
ABI F-045	Air Curtain Incinerator, Trench Type	AF2B	$1,000.00

Application Processing Fee

Check one: [X] Attached - Amount: $ 1,000.00 [ ] Not Applicable

Construction/Modification Inf ıation

1. Description of Proposed Project or Alterations:

N/A

2. Projected or Actual Date of Commencement of Construction:

3. Projected Date of Completion of Construction:

Application Comment

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates: Zone:	East (km):	North (km):	
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): 28/51/27		Longitude (DD/MM/SS): 81/57/22	
3. Governmental Facility Code: 0	4. Facility Status Code: A	5. Facility Major Group SIC Code: 89-Misc. Services	6. Facility SIC(s):

7. Facility Comment (limit to 500 characters):

This application is for the Operation Permit of a recently constructed Air Curtain Incinerator. The initial start-up and Visible Emissions Observations Test performed by Koogler & Associates was reported to FDEP, Attn: Jim McDonald, June 3, 2002. Mr. McDonald has confirmed by telephone that he has a copy of the Koogler & Assoc. Report.

Facility Contact

1. Name and Title of Facility Contact:
Clarence Lewis, Supervisor

2. Facility Contact Mailing Address:
Organization/Firm: C.R. 466-A Landfill L.L.C.
Street Address: P.O. Box 490697
City: Leesburg State: Florida Zip Code: 34749-0697

3. Facility Contact Telephone Numbers:
Telephone: 352-787-5651 Fax: 352-787-5199

Facility Regulatory Classificat' s

Check all that apply:

1.	[X]	Small Business Stationary Source?	[ ] Unknown
2.	[ ]	Synthetic Non-Title V Source?	
3.	[ ]	Synthetic Minor Source of Pollutants Other than HAPs?	
4.	[ ]	Synthetic Minor Source of HAPs?	
5.	[ ]	One or More Emissions Units Subject to NSPS?	
6.	[ ]	One or More Emission Units Subject to NESHAP Recordkeeping or Reporting?	

7. Facility Regulatory Classifications Comment (limit to 200 characters):

FDEP Facility ID No. 1190036 Emission Unit ID: 001

Rule Applicability Analysis

FAC 62-204 through 62-297 & 62-4 provisions are applicable to the facility, along with 40CFR 60, Subpart CCCC and Rule 62-296.401(2)(h) & 62-296.401 (7)

FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested Emissions Cap lb/hour	tons/year	4. Basis for Emissions Cap	5. Pollutant Comment
SO2	B	0.14	0.175	EPA Publ. AP-42 *	Air Curtain Incinerator Unit
PM10	B	18.2	22.75	"	"
NOX	B	5.6	7.0	"	"
SO2	B	0.785	0.0981	" **	Diesel Fuel Combustion Starter
SO3	B	0.029	0.0036	" **	"
NOX	B	0.12	0.015	" **	"
CO	B	0.025	0.0031	" **	"
PM10	B	0.01	0.0013	" **	"

* EPA Publication AP-42 Table 2.1-12 Uncontrolled Emission Factors For Refuse Combustors Other Than Municipal Waste

** EPA Publication AP-42 Table 1.3-1 Criteria Pollutant Emissions Factors For Fuel Oil Combustion

NOTE: Copies of these Tables are attached to this application. See Page 15, Sheets 1-8 of this application for Emissions Cap Calculations.

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Area Map Showing Facility Location:
   [X] Attached, Document ID: Sheet 1 of 1, Wicks Consulting Services Drawing [ ] Not Applicable [ ] Waiver Requested

2. Facility Plot Plan:
   [X] Attached, Document ID: Sheet 1 of 1, Wicks Consulting Services Drawing [ ] Not Applicable [ ] Waiver Requested

3. Process Flow Diagram(s):
   [X] Attached, Document ID: Sheet 1 of 1, Wicks Consulting Services Drawing [ ] Not Applicable [ ] Waiver Requested

4. Precautions to Prevent Emissions of Unconfined Particulate Matter:
   [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested

5. Supplemental Information for Construction Permit Application:
   [ ] Attached, Document ID: _____ [X] Not Applicable

6. Supplemental Requirements Comment:

Air Curtain Incinerator constructed and initial Air Emissions Testing performed. This application is submitted requesting Operation Permit.

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

☐ This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

☐ This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

☒ This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):

A.B.I., Air Curtain Incinerator, Model F-045

3. Emissions Unit Identification Number:
ID: 1190036-001-AC
☐ No ID
☐ ID Unknown

4. Emissions Unit Status Code:	5. Initial Startup Date:	6. Emissions Unit Major Group SIC Code:
A	05/07/02	89-Miscellaneous Services

7. Emissions Unit Comment: (Limit to 500 Characters)

This application is for the Operation Permit of a recently constructed Air Curtain Incinerator. The initial start-up and Visible Emissions Observations Test performed by Koogler & Assoc. was reported to FDEP, Attn: Jim McDonald, June 3, 2002. Mr McDonald has confirmed by telephone that he has a copy of the Koogler & Assoc. Report.

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method):

Forced air curtain.

2. Control Device or Method Code(s): 031

Emissions Unit Details

1. Package Unit: Air Curtain System
   Manufacturer: A.B.I., Inc., Stuart, Fl. Model Number: F-045
2. Generator Nameplate Rating: MW
3. Incinerator Information:
   Dwell Temperature: 2,200 °F
   Dwell Time: 30 - 60 minutes seconds
   Incinerator Afterburner Temperature: N/A °F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: Forced Ambient Air mmBtu/hr
2. Maximum Incineration Rate: 2,800 lb/hr 14 tons/day
3. Maximum Process or Throughput Rate: 1.4 tons/hour (daily average)
4. Maximum Production Rate: N/A
5. Requested Maximum Operating Schedule:
   10 hours/day 5 days/week
   50 weeks/year 2,500 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):

Air Curtain Incinerator burn trench will be charged with 18 - 20 yards of debris at 40 - 50 chargings per operational day.

$10\ \frac{hr}{day} \times 1.4\ \frac{TON}{Hr} = 14\ \frac{TON}{day}$

40 charges ~ 0.35 $\frac{Tons}{hr}$ or 700 $\frac{lbs}{hr}$

50 charges ~ 0.28 $\frac{ton}{hr}$ or 560 $\frac{lbs}{hr}$

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram?	2. Emission Point Type Code:
Wicks Consulting Services Sheet 1 of 1	1

3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):

Air Curtain Incinerator location. Location as shown on Wicks Consulting Services Sheet 1 of 1 drawing.

4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:

5. Discharge Type Code:	6. Stack Height:	7. Exit Diameter:
F	feet	feet
8. Exit Temperature:	**9. Actual Volumetric Flow Rate:**	**10. Water Vapor:**
°F	15,500 @ Fan acfm	Ambient air %
11. Maximum Dry Standard Flow Rate:	**12. Nonstack Emission Point Height:**	
dscfm	Elev. 110.0 ' NGVD feet	

13. Emission Point UTM Coordinates: LAT: 28/51/27 LONG: 81/57/22

Zone: East (km): North (km):

14. Emission Point Comment (limit to 200 characters):

Remote rural area with surrounding agricultural land uses.

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Land clearing debris, yard waste debris and clean wood debris. Combustion trench to be fired with 5 gallons of No.2 diesel fuel at start of each operational day.		
2. Source Classification Code (SCC): Not listed	3. SCC Units: Not listed	
4. Maximum Hourly Rate: 1.4 tons/hour	5. Maximum Annual Rate: 3,500 tons	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 0.05 Kg/Mg/Ton	8. Maximum % Ash: 2 Kg/Mg/Ton	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: SO2	2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: 031	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:
6. Potential Emissions: 0.14 lb/hour 0.175 tons/year		7. Synthetically Limited? ☐
8. Emission Factor: 0.1 lb/ton Reference: AP-42 Table 2.1-12		9. Emissions Method Code: 3

10. Calculation of Emissions (limit to 600 characters):

0.1 lb/ton of SO2 X 14 ton/day throughput = 1.4 lb/day
1.4 lb/day ÷ 10 hr/day = 0.14 lb/hr
1.4 lb/day X 250 days/year = 350 lb/year
350 lb/year ÷ 2,000 lb/ton = 0.175 ton/year

11. Pollutant Potential Emissions Comment (limit to 200 characters):

Air Curtain Incinerator Unit

Allowable Emissions Allowable Emissions 1 of 8

1. Basis for Allowable Emissions Code: ESCPSD	2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units: 0.14 lb/hour & 0.175 ton/year	4. Equivalent Allowable Emissions: lb/hour	tons/year

5. Method of Compliance (limit to 60 characters):

Field air quality testing by Koogler & Assoc.

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: PM10		2. Pollutant Regulatory Code: EL
3. Primary Control Device Code: 031	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:
6. Potential Emissions: 18.2 lb/hour 22.75 tons/year		7. Synthetically Limited? ☐
8. Emission Factor: 13 lb/ton Reference: AP-42 Table 2.1-12		9. Emissions Method Code: 3

10. Calculation of Emissions (limit to 600 characters):

13 lb/ton of PM10 X 14 ton/day throughput = 182 lb/day
182 lb/day ÷ 10 hr/day = 18.2 lb/hr
182 lb/day X 250 days/year = 45,500 lb/year
45,500 lb/year ÷ 2,000 lb/ton = 22.75 ton/year

11. Pollutant Potential Emissions Comment (limit to 200 characters):

Air Curtain Incinerator Unit

Allowable Emissions Allowable Emissions 2 of 8

1. Basis for Allowable Emissions Code: ESCPSD	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 18.2 lb/hour & 22.75 ton/year	4. Equivalent Allowable Emissions: lb/hour tons/year

5. Method of Compliance (limit to 60 characters):

Field air quality testing by Koogler & Assoc.

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: NOX	2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: 031	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:
6. Potential Emissions: 5.6 lb/hour 7.0 tons/year		7. Synthetically Limited? ☐
8. Emission Factor: 4 lb/ton Reference: AP-42 Table 2.1-12		9. Emissions Method Code: 3

10. Calculation of Emissions (limit to 600 characters):

4 lb/ton of NOX X 14 ton/day throughput = 56 lb/day
56 lb/day ÷ 10 hr/day = 5.6 lb/hr
56 lb/day X 250 days/year = 14,000 lb/year
14,000 lb/year ÷ 2,000 lb/ton = 7 ton/year

11. Pollutant Potential Emissions Comment (limit to 200 characters):

Air Curtain Incinerator Unit

Allowable Emissions Allowable Emissions 3 of 8

1. Basis for Allowable Emissions Code: ESCPSD	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 5.6 lb/hour & 7 ton/year	4. Equivalent Allowable Emissions: lb/hour tons/year

5. Method of Compliance (limit to 60 characters):

Field air quality testing by Koogler & Assoc.

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: SO2	2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: 031	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:
6. Potential Emissions: 0.785 lb/hour 0.0981 tons/year		7. Synthetically Limited? ☐
8. Emission Factor: 157 lb/1,000 gallons diesel fuel Reference: AP-42 Table 1.3-1		9. Emissions Method Code: 3

10. Calculation of Emissions (limit to 600 characters):

157 lb/1,000 gal ÷ 1,000 = 0.157 lb/gal
0.157 lb/gal X 1,250 gal/year = 196.25 lb/year
196.25 lb/year ÷ 250 hours/year = 0.785 lb/hour
196.25 lb/year ÷ 2,000 lb/ton = 0.0981 ton/year

11. Pollutant Potential Emissions Comment (limit to 200 characters):

Diesel fuel combustion starter @ 5 gal/day ignited in ambient air. Burn time estimated at 1 hour each day unit is used for 250 hours/year.

Allowable Emissions Allowable Emissions 4 of 8

1. Basis for Allowable Emissions Code: ESCPSD	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.785 lb/hour & 0.0981 ton/year	4. Equivalent Allowable Emissions: lb/hour tons/year

5. Method of Compliance (limit to 60 characters):

Field air quality testing by Koogler & Assoc.

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: SO3	2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: 031	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:
6. Potential Emissions: 0.029 lb/hour 0.0036 tons/year		7. Synthetically Limited? ☐
8. Emission Factor: 5.7 lb/1,000 gallons diesel fuel Reference: AP-42 Table 1.3-1		9. Emissions Method Code: 3

10. Calculation of Emissions (limit to 600 characters):

5.7 lb/1,000 gal ÷ 1,000 = 0.0057 lb/gal
0.0057 lb/gal X 1,250 gal/year = 7.125 lb/year
7.125 lb/year ÷ 250 hours/year = 0.029 lb/hour
7.125 lb/year ÷ 2,000 lb/ton = 0.0036 ton/year

11. Pollutant Potential Emissions Comment (limit to 200 characters):

Diesel fuel combustion starter @ 5 gal/day ignited in ambient air. Burn time estimated at 1 hour each day unit is used for 250 hours/year.

Allowable Emissions Allowable Emissions 5 of 8

1. Basis for Allowable Emissions Code: ESCPSD	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.029 lb/hour & 0.0036 ton/year	4. Equivalent Allowable Emissions: lb/hour tons/year

5. Method of Compliance (limit to 60 characters):

Field air quality testing by Koogler & Assoc.

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: NOX	2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: 031	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:
6. Potential Emissions: 0.12 lb/hour 0.015 tons/year		7. Synthetically Limited? ☐
8. Emission Factor: 24 lb/1,000 gallons diesel fuel Reference: AP-42 Table 1.3-1		9. Emissions Method Code: 3

10. Calculation of Emissions (limit to 600 characters):

24 lb/1,000 gal ÷ 1,000 = 0.024 lb/gal
0.024 lb/gal X 1,250 gal/year = 30 lb/year
30 lb/year ÷ 250 hours/year = 0.12 lb/hour
30 lb/year ÷ 2,000 lb/ton = 0.015 ton/year

11. Pollutant Potential Emissions Comment (limit to 200 characters):

Diesel fuel combustion starter @ 5 gal/day ignited in ambient air. Burn time estimated at 1 hour each day unit is used for 250 hours/year.

Allowable Emissions Allowable Emissions 6 of 8

1. Basis for Allowable Emissions Code: ESCPSD	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.12 lb/hour & 0.015 ton/year	4. Equivalent Allowable Emissions: lb/hour tons/year

5. Method of Compliance (limit to 60 characters):

Field air quality testing by Koogler & Assoc.

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: CO	2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: 031	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:
6. Potential Emissions: 0.025 lb/hour 0.0031 tons/year		7. Synthetically Limited? ☐
8. Emission Factor: 5 lb/1,000 gallons diesel fuel Reference: AP-42 Table 1.3-1		9. Emissions Method Code: 3

10. Calculation of Emissions (limit to 600 characters):

5 lb/1,000 gal - 1,000 = 0.005 lb/gal
0.005 lb/gal X 1,250 gal/year = 6.25 lb/year
6.25 lb/year - 250 hours/year = 0.025 lb/hour
6.25 lb/year - 2,000 lb/ton = 0.0031 ton/year

11. Pollutant Potential Emissions Comment (limit to 200 characters):

Diesel fuel combustion starter @ 5 gal/day ignited in ambient air. Burn time estimated at 1 hour each day unit is used for 250 hours/year.

Allowable Emissions Allowable Emissions 7 of 8

1. Basis for Allowable Emissions Code: ESCPSD	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.025 lb/hour & 0.0031 ton/year	4. Equivalent Allowable Emissions: lb/hour tons/year

5. Method of Compliance (limit to 60 characters):

Field air quality testing by Koogler & Assoc.

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: PM10	2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: 031	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:
6. Potential Emissions: 0.01 lb/hour 0.0013 tons/year		7. Synthetically Limited? ☐
8. Emission Factor: 2 lb/1,000 gallons diesel fuel Reference: AP-42 Table 1.3-1		9. Emissions Method Code: 3

10. Calculation of Emissions (limit to 600 characters):

2 lb/1,000 gal ÷ 1,000 = 0.002 lb/gal
0.002 lb/gal X 1,250 gal/year = 2.5 lb/year
2.5 lb/year ÷ 250 hours/year = 0.01 lb/hour
2.5 lb/year ÷ 2,000 lb/ton = 0.0013 ton/year

11. Pollutant Potential Emissions Comment (limit to 200 characters):

Diesel fuel combustion starter @ 5 gal/day ignited in ambient air. Burn time estimated at 1 hour each day unit is used for 250 hours/year.

Allowable Emissions Allowable Emissions 8 of 8

1. Basis for Allowable Emissions Code: ESCPSD	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.01 lb/hour & 0.0013 ton/year	4. Equivalent Allowable Emissions: lb/hour tons/year

5. Method of Compliance (limit to 60 characters):

Field air quality testing by Koogler & Assoc.

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

E. VISIBLE EMISSIONS INFORMATION
(Only Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: 5 % Exceptional Conditions: 10 % Maximum Period of Excess Opacity Allowed: 3 min/hour	
4. Method of Compliance: FDEP Method 9 and EPA Method 9 Visual Emissions, FDEP Chapter 62-297, F.A.C.	
5. Visible Emissions Comment (limit to 200 characters): Outside of the first 30 minutes of daily operation, the opacity shall not exceed 5% except that an opacity of up to 10% is allowed for up to 3 minutes each hour in compliance with the FDEP Permit.	

F. CONTINUOUS MONITOR INFORMATION
(Only Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor _____ of _____

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement: [ ] Rule [ ] Other	
4. Monitor Information: Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram
   [X] Attached, Document ID: Sheet 1 of 1, Wicks Consulting Services, Inc., ACI, CR 466-A [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification
   [X] Attached, Document ID: Tables 2.1-12 & 1.3-1, EPA Publication AP-42 [ ] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment
   [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities
   [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
5. Compliance Test Report
   [ ] Attached, Document ID: _____
   [X] Previously submitted, Date: 06/03/02, Performed by Koogler & Assoc.
   [ ] Not Applicable
6. Procedures for Startup and Shutdown
   [X] Attached, Document ID: See Item No 10. Below [ ] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan
   [X] Attached, Document ID: Operation Guidelines Manual, Revised July 1, 2002 [ ] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application
   [ ] Attached, Document ID: _____ [X] Not Applicable
9. Other Information Required by Rule or Statute
   [ ] Attached, Document ID: _____ [X] Not Applicable
10. Supplemental Requirements Comment:

The burn trench will be loaded with debris, 5 gallons of No.2 diesel fuel will be used to ignite debris. The Air Curtain Incinerator will be started and engine warmed up while diesel fuel burns debris to maintain combustion. The forced air will be introduced into trench and the unit will be run until all debris is consumed. A front-end loader will charge trench with debris periodically to maintain combustion fuel source. At the end of the operational day, the unit will be switched off. Unit is to be serviced by Ringhaver Caterpillar Inc.

air inlet debris around

Table 2.1-12 (Metric And English Units). UNCONTROLLED EMISSION FACTORS FOR REFUSE COMBUSTORS OTHER THAN MUNICIPAL WASTE[a]

EMISSION FACTOR RATING: D

Combustor Type	PM		SO_x		CO		Total Organic Compounds[b]		NO_x	
	kg/Mg	lb/ton	kg/Mg	lb/ton	kg/Mg	lb/ton	kg/Mg	lb/ton	kg/Mg	lb/ton
Industrial/commercial										
Multiple chamber	3.50 E+00	7.00 E+00	1.25 E+00	2.50 E+00	5.00 E+00	1.00 E+01	1.50 E+00	3.00 E+00	1.50 E+00	3.00 E+00
Single chamber	7.50 E+00	1.50 E+01	1.25 E+00	2.50 E+00	1.00 E+01	2.00 E+01	7.50 E+01	1.50 E+01	1.00 E+00	2.00 E+00
Trench										
Wood (SCC 5-01-005-10, 5-03-001-06)	6.50 E+00	1.30 E+01	5.00 E-02	1.00 E-01	ND	ND	ND	ND	2.00 E+00	4.00 E+00
Rubber tires (SCC 5-01-005-11, 5-03-001-07)	6.90 E+01	1.38 E+02	ND	ND	ND	ND	ND	ND	ND	ND
Municipal refuse (SCC 5-01-005-12, 5-03-001-09)	1.85 E+01	3.70 E+01	1.25 E+00	2.50 E+00	ND	ND	ND	ND	ND	ND
Flue-fed single chamber	1.50 E+01	3.00 E+01	2.50 E-01	5.00 E-01	1.00 E+01	2.00 E+01	7.50 E+00	1.50 E+01	1.50 E+00	3.00 E+00
Flue-fed (modified)	3.00 E+00	6.00 E+00	2.50 E-01	5.00 E-01	5.00 E+00	1.00 E+01	1.50 E+00	3.00 E+00	5.00 E+00	1.00 E+01
Domestic single chamber (no SCC)										
Without primary burner	1.75 E+01	3.50 E+01	2.50 E-01	5.00 E-01	1.50 E+02	3.00 E+02	5.00 E+01	1.00 E+02	5.00 E-01	1.00 E+00
With primary burner	3.50 E+00	7.00 E+00	2.50 E-01	5.00 E-01	Neg	Neg	1.00 E+00	2.00 E+00	1.00 E+00	2.00 E+00

[a] References 116-123. ND = no data. SCC = Source Classification Code. Neg = negligible.

[b] Expressed as methane.

Table 1.3-1. CRITERIA POLLUTANT EMISSION FACTORS FOR FUEL OIL COMBUSTION[a]

Firing Configuration (SCC)[a]	SO_2[b]		SO_3[c]		NO_x[d]		CO[e]		Filterable PM[f]	
	Emission Factor (lb/10^3 gal)	EMISSION FACTOR RATING	Emission Factor (lb/10^3 gal)	EMISSION FACTOR RATING	Emission Factor (lb/10^3 gal)	EMISSION FACTOR RATING	Emission Factor (lb/10^3 gal)	EMISSION FACTOR RATING	Emission Factor (lb/10^3 gal)	EMISSION FACTOR RATING
Boilers > 100 Million Btu/hr										
No. 6 oil fired, normal firing (1-01-004-01), (1-02-004-01), (1-03-004-01)	157S	A	5.7S	C	47	A	5	A	9.19(S)+3.22	A
No. 6 oil fired, normal firing, low NO_x burner (1-01-004-01), (1-02-004-01)	157S	A	5.7S	C	40	B	5	A	9.19(S)+3.22	A
No. 6 oil fired, tangential firing, (1-01-004-04)	157S	A	5.7S	C	32	A	5	A	9.19(S)+3.22	A
No. 6 oil fired, tangential firing, low NO_x burner (1-01-004-04)	157S	A	5.7S	C	26	E	5	A	9.19(S)+3.22	A
No. 5 oil fired, normal firing (1-01-004-05), (1-02-004-04)	157S	A	5.7S	C	47	B	5	A	10	B
No. 5 oil fired, tangential firing (1-01-004-06)	157S	A	5.7S	C	32	B	5	A	10	B
No. 4 oil fired, normal firing (1-01-005-04), (1-02-005-04)	150S	A	5.7S	C	47	B	5	A	7	B
No. 4 oil fired, tangential firing (1-01-005-05)	150S	A	5.7S	C	32	B	5	A	7	B
No. 2 oil fired (1-01-005-01), (1-02-005-01), (1-03-005-01)	157S	A	5.7S	C	24	D	5	A	2	A
No.2 oil fired, LNB/FGR, (1-01-005-01), (1-02-005-01), (1-03-005-01)	157S	A	5.7S	A	10	D	5	A	2	A

April

HEWITT CONTRACTING CO., INC. C & D PIT

Lake County, Florida

OPERATION RECORD

466A LANDFILL FACILITY, LLC

Date	Hours Open	Phase of Operation	NUMBER OF CHARGES.	Material Charged IN TONS
4-9-02	7:30 - 3:30	INCINERATOR	8	5.6
4-10-02	" "	" "	6	4.2
4-17-02	" "	" "	2	1.4
4-23-02	" "	" "	2	1.4
			Monthly Total	12.6 Ton

C.R. 466A LANDFILL FACILITY, LLC

DATE	4-9-07
TYPE OF STARTER FUEL USED	Diesel 1 gal used
TOTAL CHARGES	8 Buckets
DEFAULT CHARGING RATE AND IDENTIFICATION OF RAKE USED	Adam
TOTAL MATERIAL (IN TONS) CHARGED	5.6
DAILY OPERATING (CHARGING) HOURS, WHICH INCLUDES THE START OF INITIAL COMBUSTION TO THE TIME OF THE LAST CHARGE TO THE INCINERATOR (START AND STOP TIMES SHALL BE INDICATED)	Start 8:00 am Stop 12:00 am
DAILY, CALCULATE THE HOURLY CHARGING RATE (TON/HR)	1.4 Ton/Hr
MONTHLY, PROVIDE THE MOST RECENT CONSECUTIVE 12 MONTH PERIOD TOTAL OF OPERATING (CHARGING) HOURS	
MONTHLY, PROVIDE THE MOST RECENT CONSECUTIVE 12 MONTH PERIOD TOTAL FOR THE AMOUNT OF MATERIAL CHARGED IN TONS	
TYPE OF MAINTENANCE PERFORMED	Grease & Fuel & Check. Machine over
COMMENTS	
BURN PERMIT NUMBER	1190036-001-AC
OPERATOR'S SIGNATURE	Tommy Morris

DATE	4-10-07
TYPE OF STARTER FUEL USED	Diesel 1 gal used
TOTAL CHARGES	6 Buckets
DEFAULT CHARGING RATE AND IDENTIFICATION OF RAKE USED	Adam
TOTAL MATERIAL (IN TONS) CHARGED	4.2
DAILY OPERATING (CHARGING) HOURS, WHICH INCLUDES THE START OF INITIAL COMBUSTION TO THE TIME OF THE LAST CHARGE TO THE INCINERATOR (START AND STOP TIMES SHALL BE INDICATED)	Start 8:00 am Stop 11:00 am
DAILY, CALCULATE THE HOURLY CHARGING RATE (TON/HR)	1.4 Tons/Hr
MONTHLY, PROVIDE THE MOST RECENT CONSECUTIVE 12 MONTH PERIOD TOTAL OF OPERATING (CHARGING) HOURS	
MONTHLY, PROVIDE THE MOST RECENT CONSECUTIVE 12 MONTH PERIOD TOTAL FOR THE AMOUNT OF MATERIAL CHARGED IN TONS	
TYPE OF MAINTENANCE PERFORMED	Grease, Fuel & Check operation of Machine
COMMENTS	
BURN PERMIT NUMBER	1190036-001-AC
OPERATOR'S SIGNATURE	Tommy Morris

C.R. 466A LANDFILL FACILITY, LLC

DATE 4-17-02

TYPE OF STARTER FUEL USED	Diesel 1 gal
TOTAL CHARGES	2
DEFAULT CHARGING RATE AND IDENTIFICATION OF RAKE USED	Adam
TOTAL MATERIAL (IN TONS) CHARGED	4.4 Tons
DAILY OPERATING (CHARGING) HOURS, WHICH INCLUDES THE START OF INITIAL COMBUSTION TO THE TIME OF THE LAST CHARGE TO THE INCINERATOR (START AND STOP TIMES SHALL BE INDICATED)	7:42 start 7:50 stop
DAILY, CALCULATE THE HOURLY CHARGING RATE (TON/HR)	1.4 Ton/HR
MONTHLY, PROVIDE THE MOST RECENT CONSECUTIVE 12 MONTH PERIOD TOTAL OF OPERATING (CHARGING) HOURS	
MONTHLY, PROVIDE THE MOST RECENT CONSECUTIVE 12 MONTH PERIOD TOTAL FOR THE AMOUNT OF MATERIAL CHARGED IN TONS	
TYPE OF MAINTENANCE PERFORMED	Greased, Checked Belts
COMMENTS	
BURN PERMIT NUMBER	1190036-001-AC

OPERATOR'S SIGNATURE [signature]

DATE _____

TYPE OF STARTER FUEL USED	
TOTAL CHARGES	
DEFAULT CHARGING RATE AND IDENTIFICATION OF RAKE USED	
TOTAL MATERIAL (IN TONS) CHARGED	
DAILY OPERATING (CHARGING) HOURS, WHICH INCLUDES THE START OF INITIAL COMBUSTION TO THE TIME OF THE LAST CHARGE TO THE INCINERATOR (START AND STOP TIMES SHALL BE INDICATED)	
DAILY, CALCULATE THE HOURLY CHARGING RATE (TON/HR)	
MONTHLY, PROVIDE THE MOST RECENT CONSECUTIVE 12 MONTH PERIOD TOTAL OF OPERATING (CHARGING) HOURS	
MONTHLY, PROVIDE THE MOST RECENT CONSECUTIVE 12 MONTH PERIOD TOTAL FOR THE AMOUNT OF MATERIAL CHARGED IN TONS	
TYPE OF MAINTENANCE PERFORMED	
COMMENTS	
BURN PERMIT NUMBER	

OPERATOR'S SIGNATURE _____

C.R. 466A LANDFILL FACILITY, LLC

DATE 4-23-02

TYPE OF STARTER FUEL USED — Lighter Fluid

TOTAL CHARGES — 2

DEFAULT CHARGING RATE AND IDENTIFICATION OF RAKE USED — Adam

TOTAL MATERIAL (IN TONS) CHARGED — 1.4 TON

DAILY OPERATING (CHARGING) HOURS, WHICH INCLUDES THE START OF INITIAL COMBUSTION TO THE TIME OF THE LAST CHARGE TO THE INCINERATOR (START AND STOP TIMES SHALL BE INDICATED) — 8:00 AM 8:30 PM

DAILY, CALCULATE THE HOURLY CHARGING RATE (TON/HR) — 1.4 TON/HR

MONTHLY, PROVIDE THE MOST RECENT CONSECUTIVE 12 MONTH PERIOD TOTAL OF OPERATING (CHARGING) HOURS

MONTHLY, PROVIDE THE MOST RECENT CONSECUTIVE 12 MONTH PERIOD TOTAL FOR THE AMOUNT OF MATERIAL CHARGED IN TONS

TYPE OF MAINTENANCE PERFORMED — Grease, Belt Tension

COMMENTS

BURN PERMIT NUMBER — 1190036-001-AC

OPERATOR'S SIGNATURE Tommy Mowa

DATE

TYPE OF STARTER FUEL USED

TOTAL CHARGES

DEFAULT CHARGING RATE AND IDENTIFICATION OF RAKE USED

TOTAL MATERIAL (IN TONS) CHARGED

DAILY OPERATING (CHARGING) HOURS, WHICH INCLUDES THE START OF INITIAL COMBUSTION TO THE TIME OF THE LAST CHARGE TO THE INCINERATOR (START AND STOP TIMES SHALL BE INDICATED)

DAILY, CALCULATE THE HOURLY CHARGING RATE (TON/HR)

MONTHLY, PROVIDE THE MOST RECENT CONSECUTIVE 12 MONTH PERIOD TOTAL OF OPERATING (CHARGING) HOURS

MONTHLY, PROVIDE THE MOST RECENT CONSECUTIVE 12 MONTH PERIOD TOTAL FOR THE AMOUNT OF MATERIAL CHARGED IN TONS

TYPE OF MAINTENANCE PERFORMED

COMMENTS

BURN PERMIT NUMBER

OPERATOR'S SIGNATURE

MAY

HEWITT CONTRACTING CO., INC. C & D PIT

Lake County, Florida

OPERATION RECORD

466A LANDFILL FACILITY, LLC

Date	Hours Open	Phase of Operation	Number of Charges	Material Charged in Tons
5-7-02	3:00 - 3:30	INCINERATOR	2	1.4

C.R. 466A LANDFILL FACILITY, LLC

DATE 5-7-02

TYPE OF STARTER FUEL USED	Deisel 2 gal
TOTAL CHARGES	2
DEFAULT CHARGING RATE AND IDENTIFICATION OF RAKE USED	Adam 1400 lbs
TOTAL MATERIAL (IN TONS) CHARGED	1.4 TON
DAILY OPERATING (CHARGING) HOURS, WHICH INCLUDES THE START OF INITIAL COMBUSTION TO THE TIME OF THE LAST CHARGE TO THE INCINERATOR (START AND STOP TIMES SHALL BE INDICATED)	9:45 9:50 Start Stop
DAILY, CALCULATE THE HOURLY CHARGING RATE (TON/HR)	
MONTHLY, PROVIDE THE MOST RECENT CONSECUTIVE 12 MONTH PERIOD TOTAL OF OPERATING (CHARGING) HOURS	
MONTHLY, PROVIDE THE MOST RECENT CONSECUTIVE 12 MONTH PERIOD TOTAL FOR THE AMOUNT OF MATERIAL CHARGED IN TONS	
TYPE OF MAINTENANCE PERFORMED	Greased, Fuel, Belts Check
COMMENTS	Performed A certified Air Test Passed
BURN PERMIT NUMBER	1190026-001-AC

OPERATOR'S SIGNATURE [signature]

DATE _____

TYPE OF STARTER FUEL USED	
TOTAL CHARGES	
DEFAULT CHARGING RATE AND IDENTIFICATION OF RAKE USED	
TOTAL MATERIAL (IN TONS) CHARGED	
DAILY OPERATING (CHARGING) HOURS, WHICH INCLUDES THE START OF INITIAL COMBUSTION TO THE TIME OF THE LAST CHARGE TO THE INCINERATOR (START AND STOP TIMES SHALL BE INDICATED)	
DAILY, CALCULATE THE HOURLY CHARGING RATE (TON/HR)	
MONTHLY, PROVIDE THE MOST RECENT CONSECUTIVE 12 MONTH PERIOD TOTAL OF OPERATING (CHARGING) HOURS	
MONTHLY, PROVIDE THE MOST RECENT CONSECUTIVE 12 MONTH PERIOD TOTAL FOR THE AMOUNT OF MATERIAL CHARGED IN TONS	
TYPE OF MAINTENANCE PERFORMED	
COMMENTS	
BURN PERMIT NUMBER	

OPERATOR'S SIGNATURE _____

Department of Environmental Protection

Division of Air Resources Management

APPLICATION FOR AIR PERMIT - NON-TITLE V SOURCE

See Instructions for Form No. 62-210.900(3)

I. APPLICATION INFORMATION

Identification of Facility

1. Facility Owner/Company Name: **CR 466-A Landfill, L.L.C.**	
2. Site Name: **CR 466 Landfill**	
3. Facility Identification Number: **1190036** [ ] Unknown	
4. Facility Location: Street Address or Other Locator: **South side of CR 466A** City: **Leesburg** County: **Sumter** Zip Code: **34749**	
5. Relocatable Facility? [ ] Yes [X] No	6. Existing Permitted Facility? [X] Yes [ ] No

Application Contact

1. Name and Title of Application Contact: **Pradeep Raval, Consultant**
2. Application Contact Mailing Address: Organization/Firm: **Koogler & Associates** Street Address: **4014 NW 13th Street** City: **Gainesville** State: **FL** Zip Code: **32609**
3. Application Contact Telephone Numbers: Telephone: **(352) 377-5822** Fax: **(352) 377-7158**

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	11-14-2002
2. Permit Number:	1190036-002-AO / 1190036-003-AC

17 407.67 3192.39
2851 27 81 5722

Purpose of Application

Air Operation Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

[ ] Initial non-Title V air operation permit for one or more existing, but previously unpermitted, emissions units.

[ ] Initial non-Title V air operation permit for one or more newly constructed or modified emissions units.

Current construction permit number:_____

[X] Non-Title V air operation permit revision to address one or more newly constructed or modified emissions units.

Current construction permit number: **1190036-001-AC**

Operation permit number to be revised:_____

[ ] Initial non-Title V air operation permit under Rule 62-210.300(2)(b), F.A.C., for an existing facility seeking classification as a synthetic non-Title V source.

Current operation/construction permit number(s):

_____

[ ] Non-Title V air operation permit revision for a synthetic non-Title V source. Give reason for revision; e.g., to address one or more newly constructed or modified emissions units.

Operation permit number to be revised:_____

Reason for revision:_____

Air Construction Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

[X] Air construction permit to construct or modify one or more emissions units.

[ ] Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.

[ ] Air construction permit for one or more existing, but unpermitted, emissions units.

Owner/Authorized Representative

1. Name and Title of Owner/Authorized Representative: **Howard H. Hewitt, Partner**

2. Owner/Authorized Representative Mailing Address:
   Organization/Firm: **CR 466 Landfill, L.L.C.**
   Street Address: **P.O. Box 490697**
   City: **Leesburg** State: **FL** Zip Code: **34749** - 0697

3. Owner/Authorized Representative Telephone Numbers:
   Telephone: **(352) 787-5651** Fax: **(352)787-5199**

4. Owner/Authorized Representative Statement:

   I, the undersigned, am the owner or authorized representative of the facility addressed in this application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.*

   Howard H. Hewitt 11-13-02

   Signature Date

* Attach letter of authorization if not currently on file.

Professional Engineer Certification

1. Professional Engineer Name: **John B. Koogler, Ph.D., P.E.**
   Registration Number: **12925**

2. Professional Engineer Mailing Address:
   Organization/Firm: **Koogler & Associates**
   Street Address: **4014 NW 13th Street**
   City: **Gainesville** State: **FL** Zip Code: **32609**

3. Professional Engineer Telephone Numbers:
   Telephone: **(352) 377-5822** Fax: **(352) 377-7158**

4. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein, that:*

(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and

(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [X], if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [X], if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

Signature

11/11/02
Date

(seal)

* Attach any exception to certification statement.

Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type	Processing Fee
001	Landfill with air curtain incinerator	AC1E	$1000

Application Processing Fee

Check one: [X] Attached - Amount: $ **1000** [ ] Not Applicable

Construction/Modification Information

1. Description of Proposed Project or Alterations:

This application is intended to update the air curtain incinerator charging rate to 6 tph.

2. Projected or Actual Date of Commencement of Construction: **NA**

3. Projected Date of Completion of Construction: **NA**

Application Comment

This application is formatted in accordance with discussion with FDEP staff, in order to update information currently in FDEP permitting files.

Emissions Unit Information Section ___1___ of ___1___

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method): **NA**
2. Control Device or Method Code(s):

Emissions Unit Details

1. Package Unit: **NA** Manufacturer:	Model Number:	
2. Generator Nameplate Rating:	MW	
3. Incinerator Information: Dwell Temperature: Dwell Time: Incinerator Afterburner Temperature:		°F seconds °F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	**NA**	mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate: **6 tph**		
4. Maximum Production Rate:		
5. Requested Maximum Operating Schedule: hours/day weeks/year		days/week **2500** hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters): $\frac{6 \text{ TONS}}{\text{HR}} \times \frac{2 \text{ lbs}}{\text{TON}} \times \frac{2500 \text{ hr}}{\text{YR}} \times \frac{1 \text{ TON}}{2000 \text{ lbs}} = 15 \text{ TPY}$ 3500 TPY → 15000 TPY		

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment __1__ of __1__

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Wood burning**		
2. Source Classification Code (SCC): **5-02-001-03**	3. SCC Units: **Tons Processed**	
3. Maximum Hourly Rate: **6 tph**	4. Maximum Annual Rate: **15000**	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment __ __ of __ __

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

Emissions Unit Information Section ___1___ **of** __1____

Pollutant Detail Information Page __1____ **of** ___1___

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

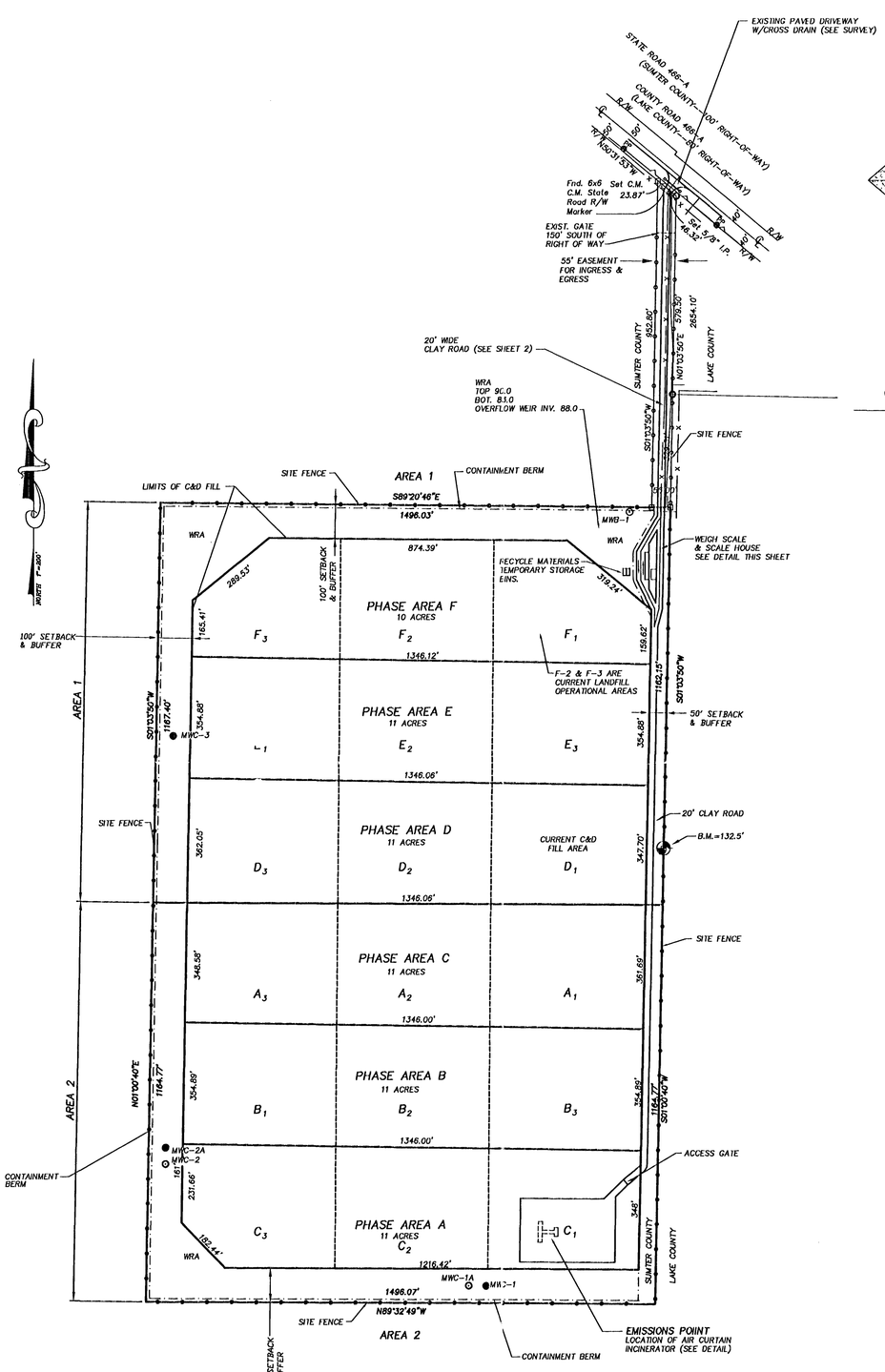
Potential Emissions

1. Pollutant Emitted: **PM/PM10**		2. Pollutant Regulatory Code:
3. Primary Control Device Code:	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control: **NA**
6. Potential Emissions: **12** lb/hour **15** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **2 lb/ton** Reference: **Permit Appl.**		9. Emissions Method Code:
10. Calculation of Emissions (limit to 600 characters): **PM/PM10, lb/hr max = 6tph x 2 lbPM/ton wood = 12 lb/hr** **PM/PM10, tpy max = 6tph x 2 lbPM/ton wood x 2500 hrs/yr x ton/2000 lbs = 15 tpy**		
11. Pollutant Potential Emissions Comment (limit to 200 characters):		

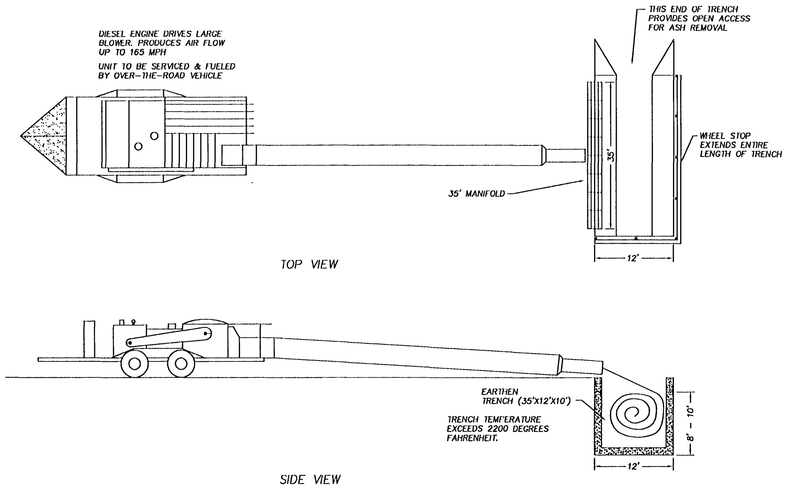
Allowable Emissions Allowable Emissions __1____ of ___1___

1. Basis for Allowable Emissions Code: **NA**	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): **VE emission standard.**	

06-18-2002 (D) 1190036, 001/AC



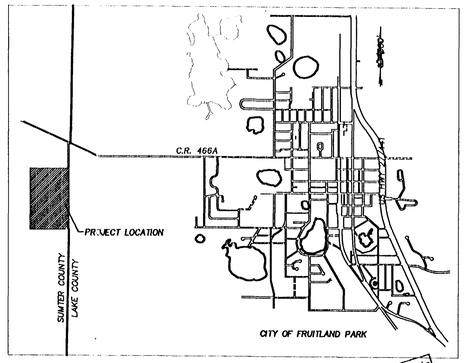
LOGAN/HEWITT
C&D LANDFILL
PHASE AREA SEQUENCE PLAN
SCALE: 1"=200'



PORTABLE AIR CURTAIN
INCINERATOR DETAIL

NOTES:

MODEL: A.B.I. F-045, STUART, FLORIDA
POWER: 67 H.P. DIESEL, 4 BELT DRIVE
FAN: 15,500 C.F.M., CENTRIFUGAL FAN
AIR OUTPUT: 165 M.P.H. @ FAN; 110 M.P.H. @ AIR MANIFOLD SPOUTS WITH 10,400 C.F.M. OUTPUT
STARTER FUEL: NO. 2 DIESEL - 5 GAL/DAY(MAX)

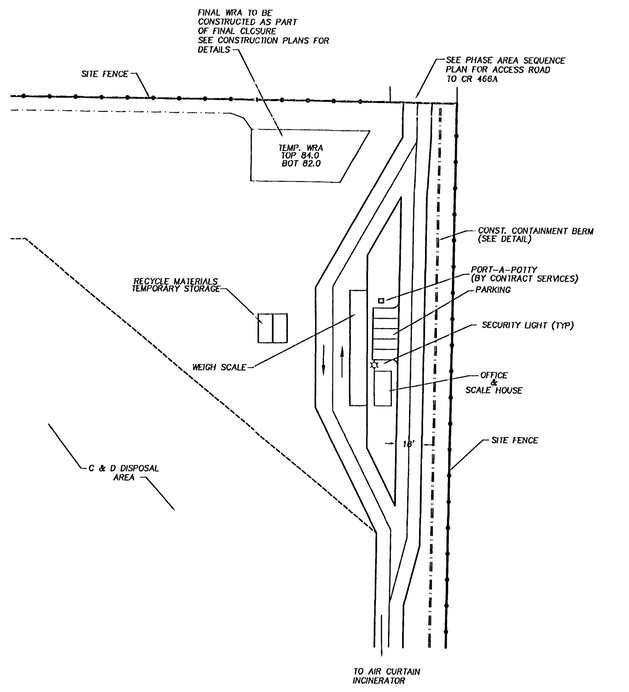


LOCATION MAP
N.T.S.

NOTES:

1. TOTAL AREA - 80 ACRES
2. ALL ADJACENT PROPERTY IS ZONED AGRICULTURE - THERE ARE NO RESIDENTIAL UNITS WITHIN 600 FT. OF THE PROJECT.
3. C&D LANDFILL FDEP PERMIT # 172478-002
4. AIR CURTAIN INCINERATOR FDEP PERMIT # 1190036-001-AC
5. PHYSICAL ADRESS: 8979 C.R. 466-A
WILDWOOD, FLORIDA 34785

SOUTHWEST DISTRICT
JUL 18 2002
RECEIVED
FDEP



OFFICE & WEIGH SCALE SITE PLAN
SCALE: 1"=50'

KENNETH R. WICKS
CERTIFICATE
33274
STATE OF FLORIDA
PROFESSIONAL ENGINEER

KENNETH R. WICKS, P.E. FL. REG. NO. 33274
DATE: 7-19-02

W C WICKS CONSULTING SERVICES, INC.
(352) 343-8667 225 West Main Street Tavares, Florida 32778-3811
Environmental, Sanitary & Water & Wastewater Engineering

HOWARD HEWITT, PARTNER
C.R. 466A LANDFILL, L.L.C.
P.O. BOX 490697
LEESBURG, FLORIDA 34749-0697
(352) 787-5651

C.R. 466A LANDFILL L.L.C.
SAND & FILL BORROW PIT AND C&D LANDFILL
AIR CURTAIN INCINERATOR

DATE:	7-09-02	
REVISION:	AS DRAWING PHASE PLAN	
tlr	12-26-01	15796-05
tw	1"=200'	Sheet: 1 Of: 1