



Florida Department of Environmental Protection

Northeast District
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Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

PERMITTEE:

Columbia Co. Depart of Public Works
607 NW Quinten Street
Lake City, Florida 32055

I.D. Number: 0230047
Permit/Cert No: 0230047-002-AO
Date of Issue: July 07, 2008
Expiration Date: July 07, 2013
County: Columbia
Lat/Long: 30°13'6.48"N; 82°38'39.96"W
UTM: (17) E-343.30; N-3343.93
Project: Initial Air Operation Permit

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-210, 62-212, 62-272, 62-296, 62-297 and 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:

PROJECT

For the operation of an air curtain incinerator for the combustion of land clearing debris, yard waste and other clean wood debris.

FACILITY DESCRIPTION

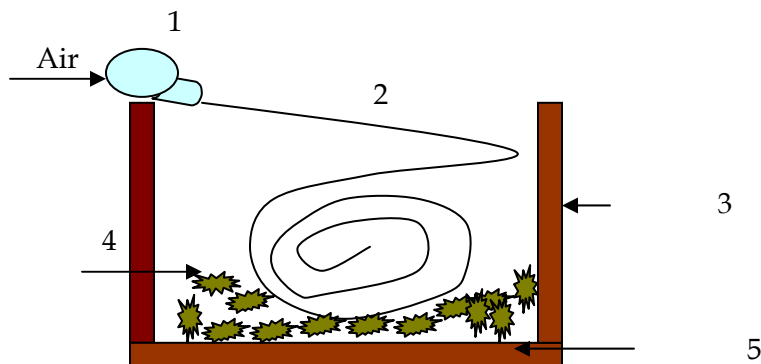
Air Curtain Incinerator. This is an Air Curtain Incinerator (Manufacturer: Concept Products Corporation Model: CP-2000T) with a 33 HP blower engine. The unit is designed for the high temperature burning of yard trash, forest slash, land clearing debris and untreated wood waste. A picture of a similar unit is as shown below.



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The figure below is the process flow diagram for an air curtain incinerator and is for information purpose only.



- (1) Air curtain machine manifold and nozzles directing high velocity air flow into trench.
- (2) Airflow forms a high velocity "curtain" over fire.
- (3) Refractory wall.
- (4) Continued airflow over-oxygenates fire keeping temperature high. Higher temperatures provide a cleaner and more complete burn.
- (5) Material to be burned.

Incineration Rate: The incineration rate is 5-10 tons/hour and the fuel consumption rate of the diesel engine is approximately 1.3 gallons/hour.

The facility is located at 607 NW Quinten Street, Lake City, Columbia County, Florida.

The facility is classified as a natural minor air pollution source. The air curtain incinerator is subject to F.A.C. Chapter 62-296.401 (7), for Air Curtain Incinerator. The air curtain incinerator is also subject to 40 CFR 60, Subpart AAAA- Small Municipal Waste Combustion Unit.

<u>E.U. ID No.</u>	<u>Brief Description</u>
01	Air Curtain Incinerator

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RULE APPLICABILITY

The facility is subject to the following regulations:

- **Chapter 62-4, F.A.C. - Permits**
- Rule 62-4.160, F.A.C.- General Permit Conditions
- Rule 62-4.130, F.A.C. - Plant Operation - Problems
- **Chapter 62-210, F.A.C. - Stationary Sources - General Requirements**
- Rule 62-210.300, F.A.C. - Permits Required
- **Chapter 62-296, F.A.C. - Stationary Sources - Emissions Standards**
- Rule 62-296.320, F.A.C.- General Pollutant Emissions Limiting Standards
- Rule 62-296.401 (7), F.A.C. - Air Curtain Incinerator
- **Chapter 62-297, F.A.C. - Stationary Sources - Emissions Monitoring**
- Rule 62-297.310, F.A.C. - General Test Requirements
- **New Source Performances Standards (NSPS) 40 CFR 60 Subpart AAAA - Small Municipal Waste Combustion Unit**
- 40 CFR 60.1435-1455 - for Air Curtain Incinerator that Burn 100% Yard Waste

ATTACHED APPENDICES ARE MADE A PART OF THIS PERMIT

Appendix GC General Conditions

Appendix A 40 CFR 60, Subpart A - General Provisions

Appendix SW Solid Waste Conditions

RELEVANT DOCUMENTS

The documents listed below are the basis of the permit. They are specifically related to this permitting action. These documents are on file with the Department.

Air Construction Permit No. 0230047-001-AC issued June 22, 2007

Application for Air Operation Permit Non-Title V source received April 07, 2008

Request for Additional Information dated April 28, 2008.

Additional Information received May 23, 2008.

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EMISSIONS UNIT (S) SPECIFIC CONDITIONS:

ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

1. Hours of Operation: The hours of operation are restricted to 1,300 Hours per year.
[Rules 62-4.160(2), 62-210.200(PTE), F.A.C. and Permit No.0230047-001 -AC]
2. Maximum Operation Rate: The maximum incineration rate is 10 tons per hour.
[Rules 62-4.160(2), 62-210.200(PTE), F.A.C. and Permit No.0230047-001 -AC]

EMISSION LIMITATIONS AND PERFORMANCE STANDARDS

3. Emission Limits: The permitted maximum allowable emissions rates are as follows:

Pollutant	Emissions Limitation	Rule
Visible Emissions (VE)	Outside of startup period, 10 % opacity or less (6 minute average)	Rule 62-296.401 (7) (b) 1, F.A.C. 40 CFR 60.1445(a)(1)
	During startup period, 35 % opacity or less (6 minute average)	Rule 62-296.401 (7) (b) 1, F.A.C. 40 CFR 60.1445(a)(2)

4. Startup: Startup period shall not exceed the first 30 minutes of the operation.
[Rule 62-296.401(7) (b) 1, F.A.C.]
5. Excess Emissions: The general excess emissions rule, Rule 62-210.700, F.A.C. shall not apply to air curtain incinerators pursuant to Rule 62-296.401 (7)(b)1, F.A.C.
6. Malfunction: Except during malfunction, the opacity limitations apply at all time, and each malfunction shall not exceed 3 hours.
[40 CFR 60.1445(b)]
7. Allowable Burning Materials: The only materials that shall be burned in the air curtain incinerator are vegetative material and untreated wood, excluding sawdust. Only kerosene, diesel fuel, drip-torch fuel (as used to ignite prescribed fires), untreated wood, virgin oil, natural gas, or liquefied petroleum gas shall be used to start the fire in the air curtain incinerator.
[Rule 62-296.401(7) (b) 3, F.A.C.]

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EMISSIONS UNIT (S) SPECIFIC CONDITIONS:

8. Prohibition: The air curtain incinerator shall not be used to burn any biological waste, hazardous waste, asbestos-containing materials, mercury-containing devices, pharmaceuticals, tires, rubber materials, residual oil, used oil, asphalt, roofing material, tar, treated wood, plastics, garbage, trash or other material prohibited to be open burned as set forth in Rule 62-256.300(2), F.A.C. The use of used oil, chemicals, gasoline, or tires to start the fire is prohibited.
[Rule 62-296.401(7) (b) 3, F.A.C.]
9. Earthen Trench Requirements: The pit wall (width and length) shall be vertical, and maintain as such, so that combustion of the waste within the pit is maintained at an adequate temperature and with sufficient air circulation to provide enough residence time and mixing for proper combustion and control of emission. The following dimension for the pit must be strictly adhered to: no more than 12 feet wide, between 8 feet and 15 feet deep, and no longer than the length of the manifold. The pit shall not be dug within a previously active portion of a landfill.
[Rule 62-296.401(7) (b) 2, F.A.C.]
10. Emergency: The air curtain incinerator may be used for the destruction of animal carcasses in accordance with the provisions of Rule 62-256.700(6), F.A.C. When using an air curtain incinerator to burn animal carcasses, untreated wood may also be burned to maintain good combustion.
[Rule 62-296.401(7) (b) 4, F.A.C.]
11. Setback: The air curtain incinerator shall be located at least fifty (50) feet from any wild lands, brush, combustible structure, or paved public roadway.
[Rule 62-296.401(7) (b) 7, F.A.C.]
12. Operation: In no case shall the air curtain incinerator be started before sunrise. All charging shall end no later than one hour after sunset. After charging ceases, air flow shall be maintained until all material within the air curtain incinerator has been reduced to coals, and flames are no longer visible. A log shall be maintained onsite that documents daily beginning and ending times of the charging.
[Rule 62-296.401(7) (b) 5, F.A.C.]
13. Operation: The materials shall not be loaded into the air curtain incinerator such that it protrudes above the air curtain.
[Rule 62-296.401(7) (b) 8, F.A.C.]
14. Operation: Ash shall not be allowed to build up in the pit to higher than 1/3 the pit depth or to the point where the ash begins to impede combustion, whichever occur first.
[Rule 62-296.401 (7) (b) 9, F.A.C.]

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EMISSIONS UNIT (S) SPECIFIC CONDITIONS:

15. Operation: The air curtain incinerator shall be attended at all times while materials are being burned or flames are visible within the incinerator
[Rule 62-296.401 (7) (b) 6, F.A.C.]
16. Operational & Maintenance Guide: An operation and maintenance guide shall be available to the operators of the air curtain incinerator at all times, and the owner shall provide training to all operators before they work at the incinerator. This guide shall be made available to the Department or for an inspector's onsite review upon request.
[Rule 62-296.401(7) (b) 10, F.A.C.]
17. 40 CFR 60 NSPS, Subpart A: The owner or operator shall comply with the applicable requirements of 40 CFR 60, Subpart A- General Provisions.
[40 CFR 60.1 (a)]
18. The open burning authorized by the department does not relieve the owner or operator from complying with any other applicable law, rules, or ordinances, including Chapter 590, Florida Statutes, and rules of the Division of Forestry.
[Rule 62-256.500, F.A.C.]
19. General Visible Emissions Standard: Except for emissions unit that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer or allow to be discharge into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on Ringelmann Chart (20% opacity). Compliance shall be determined by EPA Method 9 upon Department's request, incorporated and adopted by reference in Rule 62-297, F.A.C.
[Rule 62-296.320(4) (b) 1., F.A.C.]
20. Unconfined Particulate Matter: No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of material; construction, alteration, demolition or wrecking; or industrially activity such as loading, unloading, storing and handling; without taking reasonable precaution to prevent such emissions. Reasonable precautions may include but are not limited to the followings:
 - a. Paving and maintenance of roads, parking areas and yards.
 - b. Application of water or chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing.
 - c. Application of asphalt, water, oil, chemicals or other dust suppressants to unpaved roads, yards, open stock piles and similar activities.
 - d. Removal of particulate matter from paved roads and/or other paved areas under the control of the owner or operator of the facility to prevent reentrainment, and from buildings or work areas to prevent particulate from becoming airborne.

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EMISSIONS UNIT (S) SPECIFIC CONDITIONS:

- e. Landscaping or planting of vegetation.
- f. Use of hoods, fans, filters and similar equipment to contain, capture and prevent particulate matter.
- g. Enclosure or covering of conveyor systems.
- h. Confining abrasive blasting where possible.

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

21. Objectionable Odor Prohibited: No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. Objectionable odor, is an odor present in the outdoor atmosphere which by itself or by combination with other odors, is or maybe harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which create a nuisance.

[Rule 62-296.320(2) and 62-210.200 (181), F.A.C.]

22. 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.

[Rule 62-297.310(5)(b), F.A.C.]

COMPLIANCE MONITORING AND TESTING REQUIREMENTS

23. Compliance Testing: The reference test method for the visible emissions shall be EPA Method 9, as described at 40 CFR 60, Appendix A, adopted and incorporated by reference at Rule 62-204.800, F.A.C.

[Rule 62-296.401(7)(c) 1, F.A.C. and 40 CFR 60.1450 (a)]

24. Testing Frequency: Annual test shall be conducted no more than 13 calendar months following the date of the previous test.

[40CFR 60.1450(c)]

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EMISSIONS UNIT (S) SPECIFIC CONDITIONS:

25. Operating Rate During Testing: Testing of emissions shall be conducted with the emissions unit operating at permitted capacity, which is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impracticable to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted. Once the emissions 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.
[Rules 62-297.310(2) & (2) (b), F.A.C.]
26. Compliance Test Procedures: Test procedures shall meet all applicable requirements of Chapter 62-297, F.A.C.
[Rule 62-296.414(3) (b), F.A.C.]
27. 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.
[Rule 62-297.310(7), F.A.C.]

NOTIFICATION, REPORTING AND RECORDKEEPING

28. Compliance Test Notification: The owner or operator shall provide the Department at least 30 days prior notice of any performance test.
[40CFR 60.8 (d)]
29. Plant Operation – Problems: If the permittee is temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by hazard of fire, wind or by other cause, the permittee shall immediately notify the Department. Notification shall include pertinent information as to the cause of the problem, and what steps are being taken to correct the problem and to prevent its recurrence, and where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release the permittee from any liability for failure to comply with Department rules.
[Rule 62-4.130, F.A.C.]

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EMISSIONS UNIT (S) SPECIFIC CONDITIONS:

30. Recordkeeping: The owner or operator shall keep records of the results of all initial and annual opacity tests onsite in either paper copy or electronic format for at least 5 years and make all the records available for an inspector's onsite review.
[Rule 62-296.401(7)(c)3, F.A.C. 40 CFR 60. 1455(b), (c)&(d)]
31. Compliance Report Submittal: Reports of the required compliance tests shall be submitted as soon as practical but no later than 45 days after the last test is completed. Each test report shall include the maximum input / production rate at which this source was operated since the most recent test.
[Rule 62-297.310(8) (b), F.A.C.]

ADMINISTRATIVE

32. The I.D. No. and Project name for this source shall be used on all correspondence.
33. Any revision(s) to a permit (and application) must be submitted to the Department, in writing, and approved by the Department prior to implementation.
34. Modifications. No emissions unit or facility subject to this permit shall be constructed or modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rule 62-210.300(1), F.A.C.]
35. New or Additional Conditions. For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time.
[Rule 62-4.080 (1), F.A.C.]

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36. A completed Application for Non Title V Air Permit Renewal (DEP Form No. 62-210.900(4), F.A.C.), shall be submitted to the Department at least 60 days prior to the expiration date of this operation permit. To properly apply for an operation permit, the permittee shall submit the appropriate application form, processing fee, and compliance test reports as required by this permit.
[Rules 62-4.090, F.A.C.]

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Christopher L. Kirts, P. E.
District Air Program Administrator

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APPENDIX GC - GENERAL CONDITIONS [RULE 62-4.160]

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. 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 the permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as 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 a reasonable time, access to the premises, where the permitted activity is located or conducted to:

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- a. Have access to and copy any records that must be kept under the conditions of the permit;
- 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 reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

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 Sections 403.73 and 403.111, Florida Statutes. 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 Florida Administrative Code Rules 17-4.120 and 17-730.300, 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.

13. This permit also constitutes:

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- () Determination of Best Available Control Technology (BACT)
- () Determination of Prevention of Significant Deterioration (PSD)
- (x) 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:
 - the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the dates analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - 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 that 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.

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APPENDIX SW - SOLID WASTE CONDITIONS

(Permitting Note: Conditions provided by the Department's Solid Waste Section)

In addition to the rules and regulations that the air portion of the permit is issued under, the solid waste portion of the permit is issued under Chapter 403, Florida Statutes, and Florida Administrative Code (FAC) Chapters 62-4 and 62-701.

1. Acceptable Waste: The facility shall be limited to accepting land clearing debris as defined by FAC Rule 62-701.200(62). Any other waste is prohibited waste.
2. Access control: The facility shall control access to the facility and shall maintain the access control structures such as the field fence and gate.
[Rule 62-701.803 (7), F.A.C.]
3. Non-authorized Activities:
 - a. This permit does not authorize any waste disposal activities; no waste storage shall be within the seasonal high or low groundwater table. [Rule 62-701.300(2)(e), F.A.C.]
 - b. No waste shall be placed within 100 feet of any existing or approved off-site potable water well; no setback is required from on-site water well. [Rule 62-701.300(12)(a), F.A.C.]
 - c. No waste shall be placed within 50 feet of any natural or artificial body of water, including wetlands within the jurisdiction of the Department, except bodies of water contained completely within the property boundaries of the disposal site and that do not have a discharge. [Rule 62-701.300(12)(b), F.A.C.]
4. Spotters: At all times the facility is accepting land clearing debris, a trained spotter shall be present to inspect the waste as it is being discharged. The spotter shall inspect the loads for unacceptable materials that may inadvertently be accepted and shall remove from the waste stream and place into appropriate containers for disposal at a permitted facility.
[Rule 62-701.803(8), F.A.C.]
5. Handling and Removal of Prohibited Waste: The facility shall remove prohibited waste from the waste being discharged and shall remove it to covered roll-off containers upon discovery. Any containers containing putrescible waste shall have its contents removed within 48 hours. Nonputrescible waste shall be removed within 30 days or when the storage containers become full, whichever occurs first. The prohibited waste shall be removed to the appropriate authorized facilities.
[Rule 62-701.803(5), F.A.C.]

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6. Hazardous Waste: Any hazardous waste that is received by the facility shall be managed in accordance with the provision of FAC Chapter 62-730.
[Rule 62-701.300(4), F.A.C.]
7. Training: The Permittee shall ensure that spotters employed at the facility are properly trained to operate the facility and to identify and properly manage any hazardous or other prohibited materials that are inadvertently received at the facility. The facility shall provide initial and continuing training for each employee in accordance with FAC Chapter 62-701.320(15). New employees shall complete the first training course available to them from the date of their employment but no longer than 90 days of the date of employment. Training Certification shall be kept in an office and shall be made available to the Department at the Department's request including during a routine site inspection.
[Rule 62-701.300(15), F.A.C.]