



Florida Department of Environmental Protection

Northeast District
8800 Baymeadows Way, Suite 100
Jacksonville, Florida 32256

Rick Scott
Governor

Herschel T. Vinyard Jr.
Secretary

Sent by Electronic Mail – Received Receipt Requested

PERMITTEE:

Middleburg Sitework & Utilities, Inc.
3410 Power Line Dr.
Middleburg, Florida 32068

Air Permit No.: 0190067-004-AO
Issuance Date: May 14, 2013
Expiration Date: May 14, 2018

Authorized Representative:

Ms. Peggy Geer-Hinson

This permit authorizes the continued operation of the existing Air Curtain Incinerator for Middleburg Sitework & Utilities, Inc. (Standard Industrial Classification No. 4953). The facility is located in Clay County at 3410 Power line Road, Middleburg, Clay County, Florida 32068. The UTM coordinates of the facility are Zone 17 417.08 km East and 3322.33 km North. Latitude: 30° 31' 30" North and Longitude: 83° 51' 36" West.

This final permit is organized by the following sections.

Section 1: General Information
Section 2: Administrative Requirements
Section 3: Emissions Unit Specific Conditions
Section 4: Appendices

- a. Appendix A. Citation Formats and Glossary of Common Terms;
- b. Appendix B. General Conditions;
- c. Appendix C. Common Conditions;
- d. Appendix D. Common Testing Requirements;
- e. Appendix E. 40 CFR 60 Subpart A – General Provisions;

Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of Section 4 of this permit.

NON-TITLE V AIR OPERATION PERMIT

Upon issuance of this final permit, 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 (Mail Station #35, 3900 Commonwealth Boulevard, 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 30 days after this order is filed with the clerk of the Department.

Executed in Jacksonville, Florida



Richard S. Rachal III, P.G.
Acting Program Administrator
Waste and Air Resources Program

May 14, 2013
Date

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Permit package (including the Notice and Final Permit) was sent by electronic mail (or a link to these documents made available electronically on a publicly accessible server) with received receipt requested before the close of business on May 14, 2013, to the persons listed below.

Ms. Peggy Geer-Hinson, Owner (Email: yggep1@bellsouth.net)

Clerk Stamp

FILED AND ACKNOWLEDGMENT FILED, on this date,
pursuant to Section 120.52(7), F.S., with the designated agency
clerk, receipt of which is hereby acknowledged.



(Clerk) May 14, 2013
(Date)

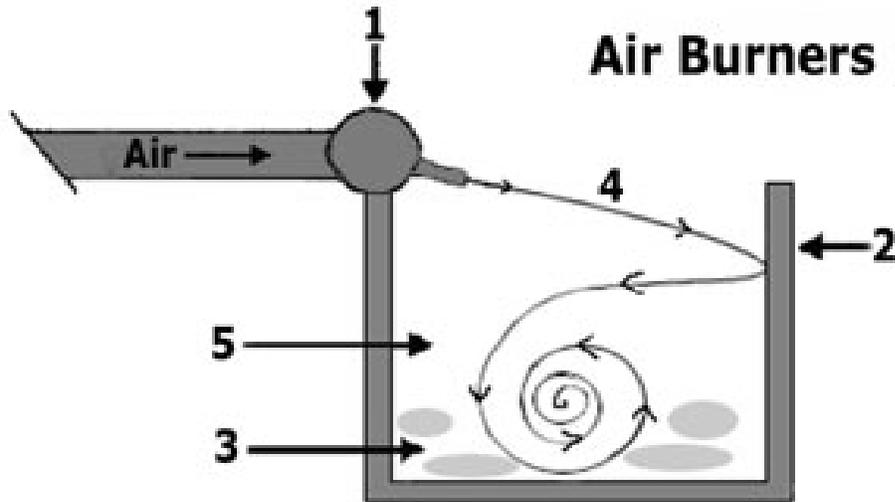
SECTION 2. ADMINISTRATIVE REQUIREMENTS

FACILITY DESCRIPTION

Existing Facility

Middleburg Sitework & Utilities, Inc. is an Air Curtain Incinerator for the burning of land clearing debris. No treated wood or construction demolition material will be burned. Particulate matter and Unconfined Particulate Matter emissions are generated from the wood burning process, transportation and stockpiling of materials.

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) Refractory wall.
- (3) Material to be burned.
- (4) Airflow forms a high velocity "curtain" over fire.
- (5) Continued airflow over-oxygenates fire keeping temperature high. Higher temperatures provide a cleaner and more complete burn.

This facility is subject to regulation under: 40 CFR 60, Subpart CCCC- Air Curtain Incinerators; 40 CFR 60, Subpart A- General Provisions; Rule 62-296.401(7), F.A.C.-Air Curtain Incinerators and Rule 62-296.320(4), F.A.C. for Unconfined Particulate Matter and Visible Emissions.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

The existing facility consists of the following emission unit.

Facility ID No. 0190067	
EU No.	Emission Unit Description
001	Air Curtain Incinerator

FACILITY REGULATORY CATEGORIES

- The facility is not a major source of hazardous air pollutants (HAP).
- The facility has no units subject to the acid rain provisions of the Clean Air Act.
- The facility is not a Title V major source of air pollution in accordance with Chapter 213, F.A.C.
- The facility is not a major stationary source in accordance with Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

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.

EPSAP Non-Title V Air Permit Renewal received April 22, 2013

SECTION 2. ADMINSTRATIVE REQUIREMENTS

1. Permitting Authority: The permitting authority for this project is the Northeast District Air Program, Florida Department of Environmental Protection (Department). The Northeast District's mailing address is 8800 Baymeadows Way, Suite 100, Jacksonville, Florida 32256-7590. All documents related to applications for permits to operate an emissions unit shall be submitted to the Northeast District.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the North East District Office. The mailing address and phone number of the District Office is: 8800 Baymeadows Way, Suite 100, Jacksonville, Florida 32256. The Permitting Authority's telephone number is 904/256-1700.
3. Appendices: The following Appendices are attached as part of this permit:
 - a. Appendix A. Citation Formats and Glossary of Common Terms;
 - b. Appendix B. General Conditions;
 - c. Appendix C. Common Conditions;
 - d. Appendix D. Common Testing Requirements;
 - e. Appendix E. 40 CFR 60 Subpart A – General Provisions;
4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-296 and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.
5. 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, F.A.C.]

6. Modifications: The permittee shall notify the Compliance Authority upon commencement of construction. No new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification.

[Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]

SECTION 2. ADMINISTRATIVE REQUIREMENTS

8. A completed **Application for Non Title V Air Permit Renewal** [DEP Form No. 62-210.900(4)] 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 62-4.055, F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC REQUIREMENTS

Air Curtain Incinerator

This section of the permit addresses the following emissions unit.

Emissions Unit	Emissions Unit Description
001	Air Curtain Incinerator

PERFORMANCE RESTRICTIONS

1. **Hours of Operation:** The incinerator hours of operation shall not exceed 10 hours per day, 6 days per week, 52 weeks per year, and 3120 hours per calendar year.
The hours of operation shall be recorded and maintained by the facility.

[Rules 62-4.160(2), 62-210.200(PTE), F.A.C., Definitions- Potential to Emit (PTE); Operation Permit No. 0190067-003-AO]

2. **Permitted Capacity:** The maximum operating rate is listed below and shall not be exceeded without prior Department approval.

Material	Rate Note (1)	To
Land clearing debris & wood wastes (Note 2)	10 tons/hr	Burning pit
No.2 Fuel oil (Diesel fuel)	1 pint per startup	Burning pit for startup

Note (1) The charging rate is defined as the total amount of material initially in the burn pit in addition to the total amount added over the first 60 minutes period. For each subsequent 60 minutes period it is the total amount added.

Note (2) Wood wastes may consist of trees, logs, large brush, stumps relatively free of soil, unbagged leaves and yard trash, tree surgeon debris, and clean dry lumber such as pallets.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC REQUIREMENTS

Air Curtain Incinerator

3. **Visible Emissions Limitation:** The permitted maximum allowable emission rate for each pollutant is as follows:

- (a). **Outside of Startup:** Maintain opacity to less than or equal to 10 percent opacity (as determined by the average of three 1-hour blocks consisting of ten 6-minute average opacity values), except as described in paragraph (b) of this section.
- (b). **During Startup:** Maintain opacity to less than or equal to 35 percent opacity (as determined by the average of three 1-hour blocks consisting of ten 6-minute average opacity values) during the startup period that is within the first 30 minutes of operation.

[Rule 62-296.401(7)(b)1, F.A.C. 40 CFR 60.2250(a)&(b)]

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. **Malfunction:** Except during malfunction, the opacity limitations apply at all time, and each malfunction shall not exceed 3 hours.

[40 CFR 60.2250(b)]

6. **Excess Emissions:** The general excess emissions rule, F.A.C. Rule 62-210.700, to handle startups, shutdowns, and malfunctions, shall not apply.

[Rule 62-296.401(7)(b)1., F.A.C.]

8. **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.]

SECTION 3. EMISSIONS UNIT SPECIFIC REQUIREMENTS

Air Curtain Incinerator

9. **Operation:**

- (a) 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.
- (b) The material shall be loaded into the air curtain incinerator such that it will not protrude above the air curtain.
- (c) Ash shall not be allowed to build up in the pit to higher than 1/3 of the pit depth or to the point where the ash begins to impede combustion, whichever occur first.
- (d) 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)5,6,8 & 9 F.A.C.]

10. **Setbacks:** 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.]

11. **Prohibitions:** 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.]

SECTION 3. EMISSIONS UNIT SPECIFIC REQUIREMENTS

Air Curtain Incinerator

12. **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.]

13. **Operational & Maintenance Guide:** A detailed operation and maintenance guide must be available to the operators at all time, and the permittee must provide the proper 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.]

COMPLIANCE MONITORING AND TESTING REQUIREMENTS

14. **Compliance Testing:** Notify the department 15 days prior to testing and submit the test report documentation to the Department within 45 days after then completion of the testing.

POLLUTANT	TEST METHOD	RULE
Visible Emission (VE)	EPA Method 9	62-296.401(7)(c)1., F.A.C.

15. **Testing Duration:** The test shall consist of three hours (average of three 1-hour blocks consisting of ten 6-minute average opacity values) with diesel being used to ignite the fire and the first run shall start at the beginning of the startup. The burning pit shall be recharged during the test as it would be during normal operations or a minimum of one time, whichever is greater.

[40 CFR 60.2250(a)(b)]

SECTION 3. EMISSIONS UNIT SPECIFIC REQUIREMENTS

Air Curtain Incinerator

16. **Operation During Compliance Test:** Testing of emissions should be conducted with the unit operating at capacity. Capacity is defined as 90-100% of rated capacity. If it is impractical to test at capacity, the unit may be tested at less than maximum capacity; in this case subsequent unit operation is limited to 110% of the test load until a new test is conducted. Once the unit is so limited, then operation at higher capacities is allowed for no more than fifteen consecutive calendar days for purposes of additional compliance testing to regain the rated capacity in the permit, with prior notification to the Department.

[Rule 62-297.310(2), F.A.C.]

17. **Frequency of Testing:** The owner or operator shall conduct annual tests no more than 12 calendar months following the date of the previous test.

[40 CFR 60, Subpart CCCC- Air Curtain Incinerator 60.2255(c)]

18. **Compliance Test Procedures:** Test procedures shall conform to the procedures specified in Rule 62-297.310, F.A.C. All test results shall be reported to the Department in accordance with the provisions of Rule 62-297.310, F.A.C.

[Rule 62-296.401(7)(c)2., F.A.C.]

19. **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.]

REPORTING AND RECORDKEEPING REQUIREMENTS

20. **Record Keeping- Daily Log:** A daily operating log shall be maintained and at a minimum contain the following:
- a. Date
 - b. Total charges
 - c. Total material (in ton) charged
 - d. Daily operating hours, which extends from the start of initial combustion to when all flames have been extinguished.
 - e. Daily average hourly charging rate.
 - f. Total monthly operating hours.

SECTION 3. EMISSIONS UNIT SPECIFIC REQUIREMENTS

Air Curtain Incinerator

Specific condition 20 continued:

- g. All maintenance that is performed.
- h. Comments.
- i. Operator's signature.

The log shall be kept at the facility in either paper copy or electronic format for a minimum of 5 years and shall be made available to the Department or for an inspector's onsite review upon request.

[Rule 62-296.401(7)(c)3, F.A.C.]

21. **Record Keeping:** Operator or owner shall meet the recordkeeping requirement pursuant to 40 CFR 60, Subpart CCCC- Air Curtain Incinerator.

- (a) Keep records of results of all initial and annual opacity test onsite in either paper or electronic format, unless the Administrator approves another format, for at least 5 years.
- (b) Make all record available for submittal to the Administrator or for an inspector's onsite review.
- (c) Keep a copy of the initial and annual report onsite for a period of 5 years.

[40 CFR 60.2260(b)(c) and (f)]

22. **Test Report:** In each test report, submit the maximum input/production rate at which this source was operated since the most recent test.

[Rule 62-4.070(3), F.A.C., 62-210.200(PTE), F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC REQUIREMENTS

Air Curtain Incinerator

FACILITY-WIDE CONDITIONS:

23. **Unconfined Particulate Matter:** No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity without taking reasonable precautions to prevent such emissions.

Reasonable precaution to prevent emission of unconfined particulate matter at this facility may include but are not limited to:

- a. Reduced speed for vehicular traffic.
- b. Use of dust suppressants or wetting agents.
- c. Use of paving or other asphaltic materials.
- d. Removal of particulate matter from paved roads and/or other paved areas by vacuum cleaning or wetting prior to sweeping.
- e. Covering of trucks, trailers, front-end loader and other vehicles or containers to prevent spillage of particulate matter during transport.
- f. Use of mulch, hydro seeding, grassing and/or other vegetative ground cover on barren areas to prevent or reduce particulate matter from being wind blown.
- g. Use of hoods, fans, filters and similar equipment to contain, capture and prevent particulate matter.
- h. Enclosure or covering of conveyors systems.
- i. Sprinkling or otherwise wetting or conveyor systems.

[Rule 62-296.320(4)(c) 2., F.A.C.]

SOLID WASTE CONDITION (i.e. conditions provided by the Department's Solid Waste Section)

24. **Solid Waste Storage:** The permittee shall ensure at all times that storage of the solid waste associated with the operation of the facility does not violate the prohibitions stated in F.A.C. Chapter 62-701.300.
25. **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.]

26. **Cease Operations:** Within 30 days of ceasing operation of the facility, the Permittee shall remove all remaining solid waste for either disposal or processing at an appropriate, permitted facility. The Permittee shall document, in writing, to the Department, the approximate volume of waste removed and name of the disposal facility receiving the waste within 60 days of the date the facility ceased operation.