Pinellas County Utilities Administration

Pinellas County Resource Recovery Facility

Facility ID No. 1030117
Pinellas County

Title V Air Operation Permit Renewal

Draft/Proposed Permit No. 1030117-008-AV

(2nd Renewal, Renewal of Title V Air Operation Permit No. 1030117-006-AV)

Permitting Authority:

State of Florida
Department of Environmental Protection
Division of Air Resource Management
Bureau of Air Regulation
Title V Section

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Title V Air Operation Permit Renewal

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Appendix 40 CFR 60 Subpart Cb (version dated 03/24/2010).
Appendix 40 CFR 60 Subpart Cc (version dated 04/21/2008).
Appendix 40 CFR 60 Subpart Eb (version dated 04/21/2008).
Appendix 40 CFR 60 Subpart IIII "Set B," Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (version dated 07/11/2006).
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Appendix 40 CFR 61 Subpart A, General Provisions (version dated 05/06/2004).
Appendix 40 CFR 61 Subpart M "Set A" (version dated 08/19/2004).
Appendix 40 CFR 63 Subpart A, General Provisions (version dated 01/29/2008).
Appendix 40 CFR 63 Subpart ZZZZ "Generally Applicable Requirements," National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (version dated 06/30/2010).

Appendix 40 CFR 63 Subpart ZZZZ "Set 2(a)(i) Emergency CI," National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (version dated 06/30/2010).
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Draft/Proposed Permit

PERMITTEE:
Pinellas County Utilities Administration
Pinellas County Resource Recovery Facility

Permit No. 1030117-008-AV
Pinellas County Resource Recovery Facility
Facility ID No. 1030117
Project: Title V Air Operation Permit Renewal

The purpose of this permit is to renew the Title V air operation permit for the above referenced facility. This existing facility is located in Pinellas County at 3001 110th Avenue North, St. Petersburg, Florida; UTM Coordinates: Zone 17, 335.20 km East and 3084.10 km North; Latitude: 27° 52' 23" North and Longitude: 82° 40' 25" West.

This Title V air operation permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210 and 62-213. The above named permittee is hereby authorized to operate the facility in accordance with the terms and conditions of this permit.

Effective Date: [Date, 2011]
Renewal Application Due Date: [Exp. Date - 225, 2011]
Expiration Date: [5 years + Eff. Date, 2011]

(Draft/Proposed)

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Michael P. Halpin, P.E., Director
Division of Air Resource Management

MPH/tlv/jkh/sms

SECTION I. FACILITY INFORMATION.

Subsection A. Facility Description.

The Pinellas County Resource Recovery Facility consists of three municipal solid waste combustors (Unit Nos. 1, 2 and 3) with auxiliary burners, lime storage and processing facilities, an activated carbon storage facility, ash storage and processing facilities, a metals recovery system, a cooling tower, ancillary support equipment, and a contiguous municipal solid waste landfill. The gross nominal electric generating capacity of the facility is 75 megawatts (MW). The total capacity of the Pinellas County Resource Recovery Facility is 3,000 tons/day (TPD) of solid waste fuel with a nominal higher heating value (HHV) of 5,000 British thermal units (Btu)/lb. The facility is owned by Pinellas County and is currently operated by Veolia ES Pinellas, Inc.

Also included in this permit are miscellaneous unregulated/insignificant emissions units and/or activities.

Subsection B. Summary of Emissions Units.

E.U. ID No.	Brief Description
Regulated Emissions Units	
001	Municipal Waste Combustor Unit 1
002	Municipal Waste Combustor Unit 2
003	Municipal Waste Combustor Unit 3
004	Hydrated Lime Storage Silo for Water Softening
005	Residue Storage and Processing Building (RSPB)
006	Activated Carbon Storage Silo
007	Lime Storage Silo for SDA
008	Ash Conditioning Building
009	Municipal Solid Waste Landfill
011	Emergency Generator - Main Lift Station
015	Portable Emergency Generator - Pond A
016	Emergency Generator - Maintenance Building
014	Diesel Tub Grinder (primary engine and secondary engine)
012	Emergency Fire Pump Engine (EPA Tier 3 Certified)
017	Emergency Generator - Scale House (EPA Tier 3 Certified)
018	Emergency Generator - Administrative Building (EPA Tier 3 Certified)
Unregulated Emissions Units and/or Activities	
013	Cooling Tower

Subsection C. Applicable Requirements.

Based on the Title V air operation permit application renewal received on April 1, 2010, this facility is a major source of hazardous air pollutants (HAP). Because this facility operates stationary reciprocating internal combustion engines, it is subject to regulation under 40 CFR 63, Subpart ZZZZ - National Emissions Standards For Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines. This facility is classified as a Prevention of Significant Deterioration (PSD) major facility. A summary of important applicable requirements is shown in the following table.

Applicable Requirement	E.U. ID No(s).
Rule 62-212.400, F.A.C., Prevention of Significant Deterioration (PSD)	001 - 003
Rule 62-212.400(6), F.A.C., Best Available Control Technology (BACT)	001 - 003
40 CFR 60, Subpart A, New Stationary Source Performance Standards (NSPS) General Provisions	001 - 003, 005 & 008
40 CFR 60, Subpart Cb, Emissions Guidelines (EG) and Compliance Times for Large Municipal Waste Combustors	001 - 003, 005 & 008
Rule 62-296.416, F.A.C., Waste-to-Energy Facilities	001 - 003
Rule 62-210.300, F.A.C., Permits Required	001 - 009 & 011 - 014
40 CFR 60, Subpart Cc, Emissions Guidelines (EG) and Compliance Times for Municipal Solid Waste Landfills	009
40 CFR 61, Subpart M, National Emission Standards for Hazardous Air Pollutants (NESHAP) for Asbestos	009
40 CFR 63, Subpart A, General Provisions	011, 014, 015 & 016 012, 017 & 018
40 CFR 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE)	011, 014, 015 & 016 012, 017 & 018
40 CFR 60, Subpart A, General Provisions	012, 017 & 018
40 CFR 60, Subpart IIII, NSPS for Compression Ignition Internal Combustion Engines (CI-ICE)	012, 017 & 018

SECTION II. FACILITY-WIDE CONDITIONS.

The following conditions apply facility-wide to all emission units and activities:

FW1. Appendices. The permittee shall comply with all documents identified in Section IV., Appendices, listed in the Table of Contents. Each document is an enforceable part of this permit unless otherwise indicated. [Rule 62-213.440, F.A.C.]

Emissions and Controls

FW2. Not federally enforceable. Objectionable Odor Prohibited. No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An "objectionable odor" means any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. [Rules 62-296.320(2) & 62-210.200 (Definitions), F.A.C.; and, Pinellas County Ordinance 97-05, Section 33, Sec. 58-178.]

FW3. General Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions. The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department. Nothing was deemed necessary and ordered at this time. [Rule 62-296.320(1), F.A.C.]

FW4. General Visible Emissions. No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20% opacity. EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C. This regulation does not impose a specific testing requirement. [Rule 62-296.320(4)(b), F.A.C.]

FW5. 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 materials; construction; alteration; demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions. Reasonable precautions to prevent emissions of unconfined particulate matter at this facility include:

Resource Recovery Facility Area

a. Paving and maintenance of roads and parking area.
b. Employment of proper dust-control techniques to prevent fugitive dust emissions during construction activities such as demolition of buildings, grading roads, construction, and land clearing.
c. Periodic sweeping of roads and other paved areas to remove particulate matter and to prevent reentrainment, and from buildings or work areas, to prevent particulate from becoming airborne.
d. Landscaping or planting of vegetation.

Landfill, Mulching, and other Areas at the Pinellas County Complex

e. Operation of the landfill in accordance with all applicable portions of Chapter 62-701, F.A.C.
f. Management of combustor ash in accordance with all applicable portions of Chapter 62-702, F.A.C.
g. Operation of the composting area in accordance with all applicable portions of Chapter 62-709, F.A.C.
h. Putrescible wastes receive a daily cover of a six inch layer of compacted earth or other approved material at the end of each day to prevent odors.
i. Landscaping or planting vegetation.
j. Periodic sweeping of roads.
k. Covering of off-site transport vehicles for ash and metals.

[Rule 62-296.320(4)(c), F.A.C. and proposed by applicant in Title V air operation permit renewal application received on April 1, 2010.]

Annual Reports and Fees

See Appendix RR, Facility-wide Reporting Requirements, for additional details.

FW6. Annual Operating Report. The permittee shall submit an annual report that summarizes the actual operating rates and emissions from this facility. Annual operating reports shall be submitted to the Compliance Authority by April 1st of each year. [Rule 62-210.370(3), F.A.C.]

FW7. Annual Emissions Fee Form and Fee. The annual Title V emissions fees are due (postmarked) by March 1st of each year. The completed form and calculated fee shall be submitted to: Major Air Pollution Source Annual Emissions Fee, P.O. Box 3070, Tallahassee, Florida 32315-3070. The forms are available for download by accessing the Title V Annual Emissions Fee On-line Information Center at the following Internet web site: http://www.dep.state.fl.us/air/emission/tvfee.htm. [Rule 62-213.205, F.A.C.]

FW8. Annual Statement of Compliance. The permittee shall submit an annual statement of compliance to the compliance authority at the address shown on the cover of this permit within 60 days after the end of each calendar year during which the Title V air operation permit was effective. [Rules 62-213.440(3)(a)2. & 3. and (b), F.A.C.]

FW9. Prevention of Accidental Releases (Section 112(r) of CAA).

a. As required by Section 112(r)(7)(B)(iii) of the CAA and 40 CFR 68, the owner or operator shall submit an updated Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center.
b. As required under Section 252.941(1)(c), F.S., the owner or operator shall report to the appropriate representative of the Department of Community Affairs (DCA), as established by department rule, within one working day of discovery of an accidental release of a regulated substance from the stationary source, if the owner or operator is required to report the release to the United States Environmental Protection Agency under Section 112(r)(6) of the CAA.
c. The owner or operator shall submit the required annual registration fee to the DCA on or before April 1, in accordance with Part IV, Chapter 252, F.S., and Rule 9G-21, F.A.C.
d. Any required written reports, notifications, certifications, and data required to be sent to the DCA, should be sent to: Department of Community Affairs, Division of Emergency Management, 2555 Shumard Oak Boulevard, Tallahassee, FL 32399-2100, Telephone: (850) 413-9921, Fax: (850) 488-1739.
e. Any Risk Management Plans, original submittals, revisions, or updates to submittals, should be sent to: RMP Reporting Center, Post Office Box 10162, Fairfax, VA 22038, Telephone: (703) 227-7650.
f. Any required reports to be sent to the National Response Center, should be sent to: National Response Center, EPA Office of Solid Waste and Emergency Response, USEPA (5305 W), 401 M Street SW, Washington, D.C. 20460, Telephone: (800) 424-8802.
g. Send the required annual registration fee using approved forms made payable to: Cashier, Department of Community Affairs, State Emergency Response Commission, 2555 Shumard Oak Boulevard, Tallahassee, FL 32399-2149.

[Part IV, Chapter 252, F.S.; and, Rule 9G-21, F.A.C.]

Subsection A. Emissions Units 001 - 003

The specific conditions in this section apply to the following emissions unit(s):

E.U. ID No.	Brief Description
001	Municipal Waste Combustor Unit 1
002	Municipal Waste Combustor Unit 2
003	Municipal Waste Combustor Unit 3

Emissions Unit ID Nos. 001, 002 and 003 are Riley Stoker manufactured municipal solid waste (MSW) combustors designated as "Unit 1," "Unit 2" and "Unit 3," respectively. Each unit consists of a mass burn water wall boiler with two auxiliary natural gas fired burners. The burners are used to fire the MSW combustors during startup, shutdown, and at other times when necessary and consistent with good combustion practices.

Each of the three municipal waste combustors (MWC) has a nominal design rated capacity of 1,000 tons MSW per day, 417 MMBtu/hour heat input, and 250,000 lbs/hour steam production based on MSW having a heating value of 5,000 Btu/lb. The capacities (maximums) are 458 MMBtu/hour heat input and 275,000 lbs/hour of steam per each boiler. Short term capacity is restricted by steam production to 275,000 lbs/hr, which effectively limits heat input. The net design steam enthalpy for useful work is 1,158 Btu/lb.

Odor is controlled by drawing combustion air from the refuse tipping floor area. Spray dry absorbers and baghouses are used for the control of acid gases and particulate matter, selective non-catalytic reduction (SNCR) for the control of nitrogen oxides (NOx), and activated carbon injection (ACI) systems for the control of mercury (Hg) and certain organic emissions.

Units 1 and 2 share a common steam turbine and Unit 3 has a separate dedicated steam turbine. The existing generation equipment is maintained and operated such that the existing three steam generating units (MWC) supplying the existing two steam turbine/generator (T/G) sets have a combined electrical output of 75 MW.

All three units exhaust to a common stack consisting of three separate flues. The stack parameters for each flue are: height, 165 feet; diameter, 8.5 feet; exit temperature, 270 degrees F; and, actual stack gas flow rate, 243,117 acfm.

Units 1 and 2 began commercial operation on May 4, 1983 while Unit 3 began commercial operation on August 1, 1986.

{Permitting notes: These emissions units are regulated under 40 CFR 60, Subpart Cb, Emissions Guidelines (EG) and Compliance Times for Large Municipal Waste Combustors adopted and incorporated by reference in Rule 62-204.800(9)(b), F.A.C.; Rule 62-296.416, F.A.C., Waste-to-Energy Facilities; Rule 62-212.400, F.A.C., Prevention of Significant Deterioration (PSD) [PSD-FL-011 & PSD FL-098, as amended]; Rule 62-212.400(6), F.A.C., Best Available Control Technology (BACT); Florida Electrical Power Plant Site Certifications [PA78-11 & PA83-18]; and, Pinellas County Ordinance 97 -05, Section 22, Sec. 58-128.}

Equipment and Operational Limitations

A.1. Name Plate. The combustors (boilers) shall have a metal name plate affixed in a conspicuous place on the shell showing the manufacturer, model number, type of waste, rated capacity, efficiency (MWC Unit 3 only), and certification number. [Rule 62-4.160(2), F.A.C.; Permit Nos. 1030117-007-AC, PSD-FL-011 & PSD-FL-098, as amended.]

A.2. Boiler Stack Height. The height of the boiler stack shall not be less than 165 feet above the ground level at the base of the stack. [Rule 62-4.160(2), F.A.C.; and, PA78-11(B) & PA83-18(B).]

Essential Potential to Emit (PTE) Parameters

A.3. Hours of Operation. These emissions units may operate continuously (8,760 hours/year). [Rule 62-210.200 (Definitions - Potential to Emit (PTE)), F.A.C.; and, PSD-FL-011 & PSD-FL-098, as amended.]

A.4. Capacity. The following maximum values (capacities) shall not be exceeded:
a. 1,100 tons/day (TPD) individual MWC unit throughput of MSW;
b. 458 MMBtu/hr individual MWC unit heat input; and,
c. 275,000 lbs/hr individual MWC unit steam production on a 4-hour block arithmetic average.
The MWCs shall not be loaded in excess of their maximum operating capacity, equivalent to 3,300 TPD total, but no more than 3,000 TPD on a rolling 12-month average. See 40 CFR 60.31b of Appendix 40 CFR 60, Subpart Cb and 40 CFR 60.58b(j) of Appendix 40 CFR 60, Subpart Eb for additional restrictions on capacity. [Rules 62-4.160(2) & 62-210.200 (PTE), F.A.C.; 40 CFR 60.31b & 40 CFR 60.58b(j); and, Permit Nos. 1030117-007-AC, PSD-FL-011 & PSD-FL-098, as amended.]

A.5. Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. See the "maximum demonstrated municipal waste combustor unit load" provisions of 40 CFR 60.34b(b) and 40 CFR 60.51b for additional restrictions on operating rate. [Rule 62-297.310(2), F.A.C.; and, 40 CFR 60.34b(b) & 40 CFR 60.51b.]

A.6. MWCs - Methods of Operation - Fuels.
a. *Allowable Fuels.*
(1) The only fuels allowed to be burned in the MWCs are municipal solid waste (MSW), with natural gas as an auxiliary fuel. Other fuels or wastes, not specifically listed herein, shall not be burned without written prior approval from the Department. Fuels or wastes specifically authorized herein do not require prior Department approval before combustion.
(2) The primary fuel for the facility is MSW, including the items and materials that fit within the definition of MSW contained in either 40 CFR 60.51b or Section 403.706(5), Florida Statutes (2010).
b. *Unauthorized Fuels.* Subject to the limitations contained in this permit, the authorized fuels for the facility also include the other solid wastes that are not MSW which are described in **d. - f.**, below. However, the facility
(1) shall not burn:
(a) those materials that are prohibited by state or federal law;
(b) those materials that are prohibited by this permit;
(c) lead acid batteries;
(d) hazardous waste;
(e) nuclear waste;
(f) radioactive waste;
(g) sewage sludge;
(h) grease, scum and grit screenings [1];
(i) explosives;
(j) beryllium-containing waste, as defined in 40 CFR 61, Subpart C. *{The U.S. EPA letter dated April 6, 2000 (see attached), on 40 CFR 61, Subpart C further addresses the applicability of this federal regulation with regard to beryllium-containing waste(s).}*
(2) and shall not knowingly burn:
(a) untreated biomedical waste from biomedical waste generators regulated pursuant to Chapter 64E-16, F.A.C., and from other similar generators (or sources). See the attached Appendix BW, Biomedical Waste Definitions, for definitions of what constitutes biomedical waste;
(b) segregated loads of biological waste.
c. *Fuel Handling.* The fuel may be received either as a mixture or as a single-item stream (segregated load) of discarded materials. If the facility intends to use an authorized fuel that is segregated non-MSW material, the fuel shall be either:
(1) well mixed with MSW on the tipping floor; or
(2) alternately charged with MSW in the hopper.
For the purposes of this permit, a segregated load is defined to mean a container or truck that is almost completely or exclusively filled with a single item or homogeneous composition of waste material, as determined by visual observation.

d. *Other Solid Waste.* Subject to the conditions and limitations contained in this permit, the following other solid waste may be used as fuel at the facility:
   (1) Confidential, proprietary or special documents (including but not limited to business records, lottery tickets, event tickets, coupons and microfilm);
   (2) Contraband which is being destroyed at the request of appropriately authorized local, state or federal governmental agencies, provided that such material is not an explosive, a propellant, a hazardous waste, or otherwise prohibited at the facility. For the purposes of this section, contraband includes but is not limited to drugs, narcotics, fruits, vegetables, plants, counterfeit money, and counterfeit consumer goods;
   (3) Wood pallets, clean wood, and land clearing debris;
   (4) Packaging materials and containers;
   (5) Clothing, natural and synthetic fibers, fabric remnants, and similar debris, including but not limited to aprons and gloves; or
   (6) Rugs, carpets, and floor coverings, but not asbestos-containing materials or polyethylene or polyurethane vinyl floor coverings.

e. *Waste Tires.* Subject to the conditions and limitations contained in this permit, waste tires may be used as fuel at the facility. The total quantity of waste tires received as segregated loads and burned at the facility shall not exceed 3%, by weight, of the facility's total fuel. Compliance with this limitation shall be determined on a calendar month basis.

f. *Non-MSW Material.* Subject to the conditions and limitations contained in this permit, the following other solid waste materials may be used as fuel at the facility (i.e., the following are authorized fuels that are non-MSW material). The total quantity of the following non-MSW material received as segregated loads and burned at the facility shall not exceed 5%, by weight, of the facility's total fuel. Compliance with this limitation shall be determined on a calendar month basis.
   (1) Construction and demolition debris.
   (2) Oil spill debris from aquatic, coastal, estuarine or river environments. Such items or materials include but are not limited to rags, wipes, and absorbents.
   (3) Items suitable for human, plant or domesticated animal use, consumption or application where the item's shelf-life has expired or the generator wishes to remove the items from the market. Such items or materials include but are not limited to off-specification or expired consumer products, pharmaceuticals, medications, health and personal care products, cosmetics, foodstuffs, nutritional supplements, returned goods, and controlled substances.
   (4) Consumer-packaged products intended for human or domesticated animal use or application but not consumption. Such items or materials include but are not limited to carpet cleaners, household or bathroom cleaners, polishes, waxes and detergents.
   (5) Waste materials that:
      (a) are generated in the manufacture of items in categories **f.(3)** or **f.(4)**, above and are functionally or commercially useless (expired, rejected or spent); or
      (b) are not yet formed or packaged for commercial distribution. Such items or materials must be substantially similar to other items or materials routinely found in MSW.
   (6) Waste materials that contain oil from:
      (a) the routine cleanup of industrial or commercial establishments and machinery; or
      (b) spills of virgin or used petroleum products. Such items or materials include but are not limited to rags, wipes, and absorbents.
   (7) Used oil and used oil filters. Used oil containing a polychlorinated biphenyls (PCB) concentration equal or greater than 50 parts per million (ppm) shall not be burned, pursuant to the limitations of 40 CFR 761.20(e).
   (8) Waste materials generated by manufacturing, industrial or agricultural activities, provided that these items or materials are substantially similar to items or materials that are found routinely in MSW, subject to written prior approval of the Department.

[Rules 62-4.070(1), (3), 62-213.410 & 62-213.440, F.A.C.; and, [1] PSD-FL-098.]

A.7. Auxiliary Burners - Methods of Operation - Fuels. Auxiliary burners for each MWC shall be fired only with natural gas. Natural gas may be used as a supplemental fuel during startups, shutdowns, and at other times when necessary and consistent with good combustion practices. [Rules 62-4.160(2), 62-210.200 (PTE), 62-213.410, & 62-213.440, F.A.C.; and, PSD-FL-011 & PSD-FL-098, as amended.]

Air Pollution Control Technologies and Measures

A.8. PM Control Device. The permittee shall continuously operate and maintain a particulate matter emission control device for the control of particulate matter. [PSD-FL-098.]

A.9. Air Pollution Control Technologies. Spray dry absorbers and baghouses shall be used for the control of acid gases and particulate matter, selective non-catalytic reduction (SNCR) for the control of nitrogen oxides (NOx), and activated carbon injection (ACI) systems for the control of mercury (Hg) and certain organic emissions. [Rules 62-4.070(1), (3) & 62-210.650, F.A.C.; and, PSD-FL-011 & PSD-FL-098, as amended.]

A.10. Carbon Usage Rate. The carbon injection rate operating standard and monitoring requirements set forth in 40 CFR 60.58b(m) of 40 CFR 60, Subpart Eb, incorporated by reference in Rule 62-204.800, F.A.C., shall apply. See Appendix 40 CFR 60, Subpart Eb. [Rule 62-296.416(5), F.A.C.]

A.11. Operation and Maintenance (O&M) Plans. A separate O&M plan shall be on file with the Compliance Authority for each MWC unit and associated air pollution control devices. These emissions units and associated air pollution control devices shall be operated and maintained in accordance with the submitted O&M plans. The O&M documentation logs shall be maintained for a minimum of the most recent five years and be made available for inspection upon request. [Rules 62-213.440(1) & 62-213.440(1)(b)2.b., F.A.C.; and, Pinellas County Ordinance 97-05, Section 22, Sec. 58-128.]

Emission Limitations and Standards

{Permitting note: Table 1, Summary of Air Pollutant Standards and Terms, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

Unless otherwise specified, the averaging times for Specific Conditions **A.12. - A.23.** are based on the specified averaging time of the applicable test method.

{Permitting note: The May 10, 2006 amendments to 40 CFR 60 Subpart Cb changed some of the emission standards and limitations for Units 1-3. Four (4) air pollutant standards/limitations were lowered under the amendments: PM, Hg, cadmium (Cd) and Pb.}

Stack Emissions

A.12. Particulate Matter. The emission limit for particulate matter (PM) contained in the gases discharged to the atmosphere is 25 milligrams (mg) per dry standard cubic meter, corrected to 7 percent oxygen. [Rule 62-204.800(9)(b)3.a., F.A.C.; 40 CFR 60.33b(a)(1)(i); and, PSD-FL-011 & PSD-FL-098, as amended.]

A.13. Opacity. The emission limit for opacity exhibited by the gases discharged to the atmosphere is 10 percent (6-minute average). [Rule 62-204.800(9)(b)3.b., F.A.C.; 40 CFR 60.33b(a)(1)(iii); and, PSD-FL-011 & PSD-FL-098, as amended.]

A.14. Cadmium. The emission limit for cadmium (Cd) contained in the gases discharged to the atmosphere is 35 micrograms (ug) per dry standard cubic meter, corrected to 7 percent oxygen. [Rule 62-204.800(9)(b)3.c., F.A.C.; 40 CFR 60.33b(a)(2)(i); and, PSD-FL-011 & PSD-FL-098, as amended.]

A.15. Mercury. The emission limit for mercury (Hg) contained in the gases discharged to the atmosphere is 50 micrograms per dry standard cubic meter or 15 percent of the potential mercury emission concentration (85-percent reduction by weight), corrected to 7 percent oxygen, whichever is less stringent. [Rule 62-204.800(9)(b)3.d., F.A.C.; 40 CFR 60.33b(a)(3); and, PSD-FL-011 & PSD-FL-098, as amended.]

A.16. Lead. The emission limit for lead (Pb) contained in the gases discharged to the atmosphere is 400 micrograms per dry standard cubic meter, corrected to 7 percent oxygen. [Rule 62-204.800(9)(b)3.c., F.A.C.; 40 CFR 60.33b(a)(4); and, PSD-FL-011 & PSD-FL-098, as amended.]

A.17. Sulfur Dioxide. The emission limit for sulfur dioxide (SO_2) contained in the gases discharged to the atmosphere is 29 parts per million by volume (ppmv) or 25 percent of the potential sulfur dioxide emission concentration (75-percent reduction by weight or volume), corrected to 7 percent oxygen (dry basis), whichever is less stringent. Compliance with this emission limit is based on a 24-hour daily geometric mean. [Rule 62-204.800(9)(b)3.e., F.A.C.; 40 CFR 60.33b(b)(3)(i); and, PSD-FL-011 & PSD-FL-098, as amended.]

A.18. Hydrogen Chloride. The emission limit for hydrogen chloride (HCl) contained in the gases discharged to the atmosphere is 29 parts per million by volume or 5 percent of the potential hydrogen chloride emission concentration (95-percent reduction by weight or volume), corrected to 7 percent oxygen (dry basis), whichever is less stringent. [Rule 62-204.800(9)(b)3.f., F.A.C.; 40 CFR 60.33b(b)(3)(ii); and, PSD-FL-011 & PSD-FL-098, as amended.]

A.19. Dioxin/Furan. The emission limit for dioxin/furan (D/F) contained in the gases discharged to the atmosphere from designated facilities that do not employ an electrostatic precipitator-based emission control system is 30 nanograms per dry standard cubic meter (total mass), corrected to 7 percent oxygen. [Rule 62-204.800(9)(b)3.g., F.A.C.; 40 CFR 60.33b(c)(1)(iii); and, PSD-FL-011 & PSD-FL-098, as amended.]

A.20. Nitrogen Oxides. The emission limit for nitrogen oxides (NOx) contained in the gases discharged to the atmosphere from a mass burn waterwall type municipal waste combustor technology is 205 parts per million by volume, corrected to 7 percent oxygen, dry basis. Emissions averaging pursuant to 40 CFR 60.33b(d)(1) shall be allowed. 40 CFR 60.33b(d)(2) shall not apply. [Rule 62-204.800(9)(b)3.h., F.A.C.; 40 CFR 60.33b(d); and, PSD-FL-011 & PSD-FL-098, as amended.]

A.21. Carbon Monoxide. The emission limit for carbon monoxide (CO) contained in the gases discharged to the atmosphere from a mass burn waterwall type municipal waste combustor technology is 100 parts per million by volume, measured at the combustor outlet in conjunction with a measurement of oxygen concentration, corrected to 7 percent oxygen, dry basis, and calculated on a 4-hour block average. [Rule 62-204.800(9)(b)3.i., F.A.C.; 40 CFR 60.34b(a); and, PSD-FL-011 & PSD-FL-098, as amended.]

A.22. Fluorides. Stack emissions of fluorides (F) from MWC Unit 3 shall not exceed 8.31 lbs/hr. [PSD-FL-098.]

Fugitive Ash Emissions

A.23. Fugitive Ash Emissions.

a. No owner or operator of an affected facility shall cause to be discharged to the atmosphere visible emissions of combustion ash from an ash conveying system (including conveyor transfer points) in excess of 5 percent of the observation period (i.e., 9 minutes per 3-hour period), as determined by EPA Reference Method 22 observations as specified in 40 CFR 60.58b(k), except as provided in paragraphs b. and c.

b. The emission limit specified in paragraph a. does not cover visible emissions discharged inside buildings or enclosures of ash conveying systems; however, the emission limit specified in paragraph a. does cover visible emissions discharged to the atmosphere from buildings or enclosures of ash conveying systems.

c. The provisions of paragraph a. do not apply during maintenance and repair of ash conveying systems.

[Rule 62-204.800(9)(b)6., F.A.C.; and, 40 CFR 60.36b and 40 CFR 60.55b.]

A.24. Refuse Bunker and Ash Handling and Load Out Stations for MWC Unit 3. The potential for dust generation by ash handling activities shall be mitigated by quenching the ash prior to loading in ash transport trucks and/or scrap piles. [PSD-FL-098.]

Excess Emissions

Rule 62-210.700 (Excess Emissions), F.A.C., cannot vary any requirement of an EG, NSPS or NESHAP provision.

A.25. Excess Emissions Allowed - Startup, Shutdown or Malfunction. Excess emissions resulting from startup, shutdown or malfunction shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. The Department authorizes three hours in any 24-hour period for these emissions units. A malfunction means any unavoidable failure of air pollution control equipment or process equipment to operate in a normal or usual manner. [Rules 62-210.700(1) & (5), F.A.C.; PSD-FL-011 & PSD-FL-098, as amended; and, authorized by Department on March 27, 2000.]

A.26. Excess Emissions Prohibited. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]

Continuous Monitoring Requirements

{Permitting Note: The following continuous monitors are installed on these emissions units: steam flow, inlet temperature to baghouse, opacity, SO_2, NOx, CO, O_2 and CO_2.}

A.27. Steam Flow Meter. The owner or operator shall calibrate, maintain, and operate a steam flow meter or a feedwater flow meter; to measure steam (or feedwater) flow in kilograms per hour (or lbs/hour) on a continuous basis; and record the output of the monitor. Steam (or feedwater) flow shall be calculated in 4-hour block arithmetic averages. [Rule 62-213.440, F.A.C.; 40 CFR 60.34b, 40 CFR 60.53b & 40 CFR 60.58b(i)(6); and, PSD-FL-011 & PSD-FL-098, as amended.]

A.28. Inlet Temperature to Particulate Matter Control Device (Baghouse). The owner or operator shall calibrate, maintain, and operate a device for measuring on a continuous basis the temperature of the flue gas stream at the inlet to each particulate matter control device utilized. Temperature shall be calculated in 4-hour block arithmetic averages. [Rule 62-213.440, F.A.C.; and, 40 CFR 60.34b, 40 CFR 60.53b & 40 CFR 60.58b(i)(7).]

A.29. Continuous Emissions Monitoring Systems (CEMS) Required. The owner or operator shall calibrate, operate and maintain continuous emissions monitoring systems (CEMS) for monitoring opacity, sulfur dioxide (SO_2), nitrogen oxides (NOx) and carbon monoxide (CO). [Rule 62-213.440, F.A.C.; and, 40 CFR 60.38b; 40 CFR 60.58b(c)(8) (opacity); 40 CFR 60.58b(e)(5) (SO_2); 40 CFR 60.58b(h)(4) (NOx) & 40 CFR 60.58b(i)(3) (CO).]

A.30. Oxygen (O_2) or Carbon Dioxide (CO_2) CEMS. The owner or operator shall calibrate, maintain, and operate a continuous emission monitoring system (CEMS) for measuring the oxygen or carbon dioxide content of the flue gas at each location where carbon monoxide, sulfur dioxide, or nitrogen oxides emissions are monitored and record the output of the system. [Rule 62-213.440, F.A.C.; 40 CFR 60.38b, & 40 CFR 60.58b(b); and, PSD-FL-011 & PSD-FL-098, as amended.]

Test Methods and Procedures

{Permitting note: Table 2, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

A.31. Test Methods. Required tests shall be performed in accordance with the following reference methods:

Method(s)	Description of Method(s) and Comment(s)
EPA Methods 1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
EPA Methods 5, 17,	Methods for Determining PM/PM_{10} Emissions. The minimum sample volume

Method(s)	Description of Method(s) and Comment(s)
201A or 202	shall be 30 dry standard cubic feet.
EPA Methods 6, 6A or 6C	Methods for Determining SO_2 Emissions
EPA Method 7, 7A, 7C, 7D or 7E	Determination of NOx Emissions
EPA Method 9	Visual Determination of the Opacity of Emissions (VE).
EPA Method 10	Determination of CO Emissions. The method shall be based on a continuous sampling train.
EPA Method 13B [1]	Determination of F Emissions. One sample shall constitute one test run.
EPA Method 22	Visual Determination of Fugitive Emissions from Material Sources.
EPA Method 23	Measurement of D/F Emissions. Authorized to omit methylene chloride rinse.[2]
EPA Method 26 or 26A	Determination of HCl Emissions from Stationary Sources. On April 28, 2010, the Department approved changes in the EPA Method 26 testing methodology in an Order. **The Order expires December 31, 2015**.[3]
EPA Method 29	Determination of Metal (e.g., Cd, Hg and Pb) Emissions from Stationary Sources.

The above methods are described in Chapter 62-297, F.A.C. and/or 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Chapter 62-297, F.A.C.; Rule 62-204.800(9)(b)7., F.A.C.; [1] PSD-FL-098, as amended; and, [2] Appendix ATP, U.S. EPA Alternative Test Procedure Approval dated June 3, 2004; and, [3] Appendix ASP, DEP Order dated April 28, 2010.]

A.32. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

A.33. Annual Compliance Test. The owner or operator shall conduct a performance test for PM, opacity, Cd, Hg, Pb and D/F emissions on a calendar year basis (no less than 9 calendar months and no more than 15 calendar months following the previous performance test; and must complete five performance tests in each 5-year calendar period). The owner or operator shall conduct a performance test for HCl emissions on an annual basis (no more than 12 calendar months following the previous performance test). [Rules 62-297.310(7) & 62-204.800(9)(b)7., F.A.C.]

A.34. Compliance Test Prior To Renewal. Prior to permit renewal, Emissions Unit ID Nos. 001, 002 and 003 shall be tested to demonstrate compliance with the emission limitations and standards for F. [Rule 62-297.310(7)(a)3., F.A.C.]

A.35. Dioxins/Furans. The alternative performance testing schedule for dioxins/furans (D/F) specified in 40 CFR 60.58b(g)(5)(iii) (See Appendix 40 CFR 60, Subpart Eb) shall apply to municipal waste combustor plants that achieve a dioxin/furan emission level less than or equal to **15** nanograms per dry standard cubic meter, corrected to 7 percent oxygen. [Rule 62-204.800(9)(b)7.b, F.A.C.]

A.36. Refuse Bunker and Ash Handling and Load out Stations for MWC Unit 3. Compliance with the opacity standard for the ash handling and load out stations for MWC Unit 3 shall be determined by evaluating the emissions in accordance with EPA Reference Method 22. [PSD-FL-098.]

Recordkeeping and Reporting Requirements

A.37. Reporting Schedule. The following reports shall be submitted to the Compliance Authority:

Report	Reporting Deadlines	Related Conditions
Excess Emissions from Malfunctions, if requested by the Compliance Authority	Every 3 months (quarter)	**A.38.**
NSPS Excess Emissions and Monitoring System Performance	Every 6 months (semi-annual), except when more frequent reporting is specifically required	**A.48.**
PSD Avoidance Report	March 1st	**A.51.b.**

[Rule 62-210.700(6), F.A.C.; 40 CFR 60, Subpart A; and, PSD-FL-011 & PSD-FL-098, as amended.]

A.38. Excess Emissions from Malfunctions. In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the Compliance Authority in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Compliance Authority. [Rule 62-210.700(6), F.A.C.]

A.39. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440, F.A.C.]

A.40. Records of Non-MSW. The facility owner or operator shall prepare and maintain records concerning the description and quantities of all segregated loads of non-MSW material which are received and used as fuel at the facility, and subject to a percentage weight limitation (see Specific Conditions **A.6.e.** and **A.6.f.**). The following records shall be prepared and maintained to demonstrate compliance with the segregated non-MSW percentage limitations:

a. *Segregated Loads of non-MSW Materials*. Each segregated load of non-MSW materials, that is subject to the percentage weight limitations (see Specific Conditions **A.6.e.** and **A.6.f.**), which is received for processing shall be documented as to the description and weight of the waste. The weight of all waste materials received for processing shall be measured using the facility truck scale and recorded.

b. *Waste Tires*. Each day the total weight of segregated tires received shall be computed, and the daily total shall be added to the sum of the daily totals from the previous days in the current calendar month. At the end of each calendar month, the resultant monthly total weight of tires shall be divided by the total weight of all waste materials received in the same calendar month, and the resultant number shall be multiplied by 100 to express the ratio in percentage terms. The percentage computed shall be compared to the 3% limitation.

c *Non-MSW Material*. Each day the total weight of segregated non-MSW materials received that are subject to the 5% restriction shall be computed, and the daily total shall be added to the sum of the daily totals from the previous days in the current calendar month. At the end of each calendar month, the resultant monthly total weight of segregated non-MSW materials subject to the 5% restriction shall be divided by the total weight of all waste materials received in the same calendar month, and the resultant number shall be multiplied by 100 to express the ratio in percentage terms. The percentage computed shall be compared to the 5% limitation.

[Rules 62-4.070(1), (3), 62-213.410 & 62-213.440, F.A.C.]

A.41. Auxiliary Burner Records. Monthly records shall be maintained of the amount of natural gas used by the auxiliary burners of each MWC unit and the equivalent heat input from natural gas calculated using the heat value for natural gas provided by the natural gas supplier. [Rule 62-213.440(1) (Operational Requirements that Assure Compliance), F.A.C.]

A.42. Reporting and Recordkeeping. The reporting and recordkeeping requirements applicable to each municipal waste combustor unit subject to Rule 62-204.800(9)(b), F.A.C., shall be the same as set forth in 40

CFR 60.59b, except for the siting requirements under 40 CFR 60.59b(a), (b)(5) and (d)(11). See Appendix 40 CFR 60, Subpart Eb. [Rule 62-204.800(9)(b)7.b, F.A.C.]

Operator Practices, Training and Certification

A.43. Operating Practices. The owner or operator shall comply with the operating practices as set forth in 40 CFR 60.53b(b) and (c). [Rule 62-204.800(9)(b)4., F.A.C.; and, 40 CFR 60.34b & 40 CFR 60.53b.]

A.44. Operator Training and Certification. The owner or operator shall comply with the operator training and certification requirements of 40 CFR 60.54b. Compliance with these requirements shall be conducted according to the schedule specified in 40 CFR 60.39b(c)(4). [Rule 62-204.800(9)(b)5., F.A.C.; and, 40 CFR 60.35b & 40 CFR 60.54b.]

EG 40 CFR 60, Subpart Cb Requirements

A.45. EG Requirements - General Applicability and Definitions. These emissions units shall comply with all applicable requirements of 40 CFR 60, Emission Guidelines and Compliance Times which have been adopted by reference in Rule 62-204.800(9), F.A.C., except that the term "Administrator," when used in any provision of 40 CFR 60 that is delegated to the Department by the U.S. Environmental Protection Agency, shall mean the Secretary or the Secretary's designee. [Rule 62-204.800(9)(a), F.A.C.]

A.46. EG Requirements - Subpart Cb. These emissions units shall comply with all applicable requirements of 40 CFR 60, Subpart Cb, Emissions Guidelines (EG) and Compliance Times for Large Municipal Waste Combustors, which have been adopted and incorporated by reference in Rule 62-204.800(9), F.A.C. These emissions units shall comply with **Appendix 40 CFR 60 Subpart Cb** included with this permit. [Rule 62-204.800(9)(b), F.A.C.]

NSPS 40 CFR 60, Subpart A & Eb Requirements

{Permitting notes: The EG 40 CFR 60, Subpart Cb, cross references conditions (applicable requirements) that are contained in the NSPS 40 CFR 60, Subparts A and Eb.}

A.47. NSPS Requirements - Subpart Eb. Except as otherwise provided in this permit, these emissions units shall comply with all applicable provisions of 40 CFR 60, Subpart Eb, Large Municipal Waste Combustors, adopted and incorporated by reference in Rule 62-204.800(8)(b), F.A.C.; except that the Secretary is not the Administrator for purposes of the authorities cited at 40 CFR 60.50b(n). These emissions units shall comply with all applicable provisions of **Appendix 40 CFR 60 Subpart Eb** included with this permit. [Rule 62-204.800(8)(b)7., F.A.C.]

A.48. NSPS Requirements - Subpart A. This emissions unit shall comply with all applicable requirements of 40 CFR 60, Subpart A, General Provisions, including:

40 CFR 60.7, Notification and Recordkeeping
40 CFR 60.8, Performance Tests
40 CFR 60.11, Compliance with Standards and Maintenance Requirements
40 CFR 60.12, Circumvention
40 CFR 60.13, Monitoring Requirements
40 CFR 60.19, General Notification and Reporting Requirements,

which have been adopted by reference in Rule 62-204.800(8)(d), F.A.C.; except that the Secretary is not the Administrator for purposes of 40 CFR 60.4, 40 CFR 60.8(b)(2) and (3), 40 CFR 60.11(e)(7) and (8), 40 CFR 60.13(g), (i) and (j)(2), and 40 CFR 60.16. This emissions unit shall comply with all applicable provisions of **Appendix 40 CFR 60 Subpart A** included with this permit. [Rule 62-204.800(8)(d), F.A.C.]

Other Requirements

A.49. Acid Rain Part Application. For any unit which is a solid waste incinerator, burning less than 20 percent fossil fuel as described in 40 CFR 72.6(b)(7), adopted and incorporated by reference at Rule 62-204.800, F.A.C., the designated representative of the source containing the unit shall submit a complete Acid Rain Part

application governing such unit to the Department before March 1st of the year following the three calendar year period in which the incinerator consumed 20 percent or more fossil fuel on a British thermal unit (BTU) basis. [Rule 62-214.320(1), F.A.C.]

A.50. Source Obligation - Facility Improvement Projects. At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by virtue of a relaxation in any enforceable limitation which was established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification. [Rule 62-212.400(12)(a) & (b), F.A.C.; and, Permit No. 1030117-007-AC/PSD-FL-011C & PSD-FL-98C.]

A.51. PSD Applicability Monitoring and Reporting Requirements - Facility Improvement Projects.

a. *Monitoring*. The permittee shall monitor the emissions of any PSD pollutant that the Department identifies could increase as a result of the construction or modification and that is emitted by any emissions unit that could be affected; and, using the most reliable information available, calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of 5 years following resumption of regular operations after the change (construction/refurbishment of Boiler Nos. 1, 2 and 3 was completed on November 29, 2009, March 25, 2010, and April 14, 2008, respectively; the "project" was completed in 2010; therefore, the 5-year period is effective for calendar year (CY) 2011 emissions through CY 2015 emissions). The change (projects) shall not increase the design capacity of any emissions unit or its potential to emit that PSD pollutant. Emissions shall be computed in accordance with Rule 62-210.370, F.A.C.
   (1) The Department identified the following PSD pollutants that could increase from the project: NOx, SO_2, CO, PM, PM_{10}/MWC Metals, Lead, Hydrogen Fluoride, MWC Organics and MWC Acid Gases.
   (2) The permittee shall use the same calculation methodology of emissions as outlined in the July 24, 2006 permit application. In summary, the CEMS shall be used for emissions of NOx, SO_2 and CO. For emissions of PM, PM_{10}/MWC Metals, Lead, Hydrogen Fluoride, MWC Organics and MWC Acid Gases stack test data shall be used.

[Rule 62-212.300(1)(e)1., F.A.C.]

{Permitting note: The applicant submitted a revised baseline (see attached Table 3, Revised Facility Baseline and Projected Actual Emissions Estimates.)}

b. *Reporting*. The permittee shall report to the Department by March 1st based on the records required to be generated under subparagraph 62-212.300(1)(e)1., F.A.C., setting out the unit's annual emissions during the calendar year that preceded submission of the report. The report shall contain the following:
   (1) The name, address and telephone number of the owner or operator of the major stationary source;
   (2) The annual emissions as calculated pursuant to subparagraph 62-212.300(1)(e)1., F.A.C.;
   (3) If the emissions differ from the preconstruction projection, an explanation as to why there is a difference; and,
   (4) Any other information that the owner or operator wishes to include in the report.

[Rule 62-212.300(1)(e)2., F.A.C.]

c. *Recordkeeping*. The information required to be documented and maintained pursuant to subparagraphs 62-212.300(1)(e)1. and 2., F.A.C., shall be submitted to the Department, which shall make it available for review to the general public.

[Rule 62-212.300(1)(e)3., F.A.C.]

d. *Source Obligation*. At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by exceeding its projected actual emissions, then the requirements of subsections 62-

212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.

[Rule 62-212.400(12)(c), F.A.C.]

{Permitting note: Definitions for "Baseline Actual Emissions," "Projected Actual Emissions," "Actual Emissions," and "Net Emissions Increase" are found at Rule 62-210.200, F.A.C. For purposes of "Baseline Actual Emissions," period construction commenced on Boiler Nos. 1, 2 and 3 (the "project") in 2008.}

[Permit Nos. 1030117-007-AC/PSD-FL-011C & PSD-FL-98C.]

Subsection B. Emissions Units 004 - 008

The specific conditions in this section apply to the following emissions units:

E.U. ID No.	Brief Description
004	Hydrated Lime Storage Silo for Water Softening
005	Residue Storage and Processing Building (RSPB)
006	Activated Carbon Storage Silo
007	Lime Storage Silo for SDA
008	Ash Conditioning Building (ACB)

Emissions Unit ID No. 004 is a 2,667 cubic foot hydrated lime storage silo manufactured by Chemco. This emissions unit is located in the water softening area of the facility. It is part of a lime system designed to mix lime with water to produce lime slurry and store and transfer the lime slurry to the clarifier in the water treatment facility. A supply truck pneumatically transfers dry lime to the silo through a fill line. A baghouse (Siloair Model No. VS20KS3) is utilized to filter air from the lime silo during filling operations. The baghouse removes the dust (particulate matter) from the silo through 215 square feet of cloth at approximately 1,000 acfm. The filtered air is vented directly from the unit through a 0.6 feet diameter outlet at approximately 60 feet above grade. Material captured by the baghouse is returned to the silo as usable product. The initial startup date of the silo was February 15, 1995.

Emissions Unit ID No. 005 is the Residue Storage and Processing Building (RSPB). The RSPB is the combination of the metals recovery system and ash storage system. The metals recovery system separates up to 112 tons per hour of MWC ash residue into ferrous and nonferrous metal streams and an aggregate stream. The aggregate is used as landfill cover at the Bridgeway Acres Landfill. The bottom ash is wetted in a quench tank. The fly ash is wetted in a pug mill and then combined with the bottom ash. Ash is typically wet when it comes into the RSPB. The RSPB has a ventilation system to maintain proper ventilation inside the RSPB. There are 10 stationary fixed blade wall louvers (9 mounted low on the north wall and 1 on the east wall) each rated for 7,500 acfm each for a total of 75,000 acfm. There are 5 wall exhaust fans in the RSPB on the south wall each rated at 12,900 acfm for a total of 64,500 acfm. A baghouse (Donaldson Model No. 225MBWS8) is utilized to continuously capture fugitive emissions at key locations on the ash conveying system. The baghouse removes the fugitive dust (particulate matter) through 2,884 square feet of cloth at approximately 14,000 acfm. The filtered air is vented through a 30” × 30” rectangular stack that is approximately 16 feet in height. The material captured by the baghouse is mixed in with the flyash and sent to the landfill (see Subsection III.C.). The startup date of the RSPB was June 10, 2008.

Emissions Unit ID No. 006 is a 30 ton capacity silo for storage of activated carbon powder manufactured by Chemco. It is part of the activated carbon injection (ACI) system for control of mercury emissions from the municipal waste combustion units. A supply truck pneumatically transfers the activated carbon powder to the silo through a fill line. A baghouse (Wheelabrator Model No. 22WSC-BV) is utilized to filter dust (particulate matter) laden air from the carbon silo during filling operations. The baghouse filters the air at approximately 1,200 acfm and vents directly to a 0.7 feet diameter outlet approximately 43 feet above grade. Material captured by the baghouse is returned to the silo as usable product. The initial startup date of the silo was September 24, 1998.

Emissions Unit ID No. 007 is a 70 ton capacity silo for storage of pebble lime. It is part of the spray dry absorber (SDA) system used for control of acid gases and sulfur dioxide emissions from the municipal waste combustion units. A supply truck pneumatically transfers pebble lime to the silo through a fill line. A baghouse (Wheelabrator Model No. 22WSC-BV) is utilized to filter dust (particulate matter) laden air from the lime silo during filling operations. The baghouse filters the air at approximately 1,200 acfm and vents directly to a 0.7 feet diameter outlet approximately 43 feet above grade. Material captured by the baghouse is returned to the silo as usable product. The initial startup date of the silo was September 24, 1998.

Emissions Unit ID No. 008 is the Ash Conditioning Building (ACB). The ACB contains two 20 ton capacity fly ash surge bins. The fly ash is wetted to control the dust and minimize fugitive emissions. A high efficiency wet venturi scrubber (Tri-Mer Corporation Model No. 50-H) is utilized to remove fugitive particulate matter emissions in the ACB. The wet scrubber vents the treated air at 1,200 acfm through a 1.3 foot diameter stack that is approximately 65 feet in height. The initial startup date of the scrubber was September 24, 1998.

{Permitting note(s): These emissions units are regulated under Rule 62-210.300, F.A.C., Permits Required; Permit Nos. 1030117-007-AC and AC52-259351; Pinellas County Ordinance 97-05, Section 22, Sec. 58-128; and, Florida Electrical Power Plant Site Certifications [PA78-11 & PA83-18]. The ash conveying systems of E.U. ID Nos. -005 and -008 are regulated under 40 CFR 60, Subpart Cb, Emissions Guidelines (EG) and Compliance Times for Large Municipal Waste Combustors.}

Essential Potential to Emit (PTE) Parameters

B.1. Hours of Operation. These emissions units may operate continuously (8,760 hours/year). [Rule 62-210.200 (Definitions - Potential to Emit (PTE), F.A.C.]

B.2. Permitted Capacity.
a. *Hydrated Lime Storage Silo for Water Softening*. The filling rate for the hydrated lime storage silo shall not exceed 25 tons/hour (occurs in less than one hour).
b. *RSPB*. The charging rate for the RSPB shall not exceed 112 tons/hr ash.
c. *Activated Carbon Silo and Lime Storage Silo for SDA*. The filling rate for the activated carbon and lime storage silos shall not exceed 20,000 and 30,000 lbs/hr, respectively.
d. *ACB*. The charging rate for the ACB shall not exceed 41.7 tons/hr fly ash.

[Rules 62-4.160(2) & 62-210.200 (PTE), F.A.C.; Permit Nos. AC52-259351 & 1030117-007-AC; and, Applicant Request.]

B.3. Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(2), F.A.C.]

Emission Limitations and Standards

{Permitting note: Table 1, Summary of Air Pollutant Standards and Terms, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

Unless otherwise specified, the averaging times for Specific Conditions **B.4. - B.5.** are based on the specified averaging time of the applicable test method.

B.4. Particulate Matter Emissions.
a. *Hydrated Lime Storage Silo for Water Softening*. Particulate matter emissions shall not exceed 0.005 gr/dscf from the baghouse outlet at the hydrated lime storage silo. {For informational purposes, equivalent to 0.043 lbs/hr and 0.19 TPY based on a design flow rate of 750 dscfm.}
b. *RSPB*. Particulate matter emissions shall not exceed 0.01 gr/dscf from the baghouse outlet at the RSPB. {For informational purposes, equivalent to 1.2 lbs/hr and 5.3 TPY based on a design flow rate of 14,000 dscfm.}
c. *Activated Carbon Silo and Lime Storage Silo for SDA*. Particulate matter emissions shall not exceed 0.005 gr/dscf from the baghouse outlet at each silo. {For informational purposes, equivalent to 0.0514 lbs/hr and 0.225 TPY based on a design flow rate of 1,200 acfm.}
d. *ACB*. Particulate matter emissions shall not exceed 0.03 gr/dscf from the wet scrubber system outlet at the ACB. {For informational purposes, equivalent to 1.29 lbs/hr and 5.63 TPY based on a design flow rate of 5,000 acfm.}

[Rules 62-4.160(2), 62-210.200 (PTE), 62-297.620(1)-(3) & 62-297.620(4), F.A.C.; PA78-11 & PA83-18; and, Applicant Request.]

B.5. Visible Emissions. Visible emissions from each emissions unit shall not exceed 5% opacity. [Rules 62-4.160(2), 62-210.200 (PTE), 62-297.620(1)-(3) & 62-297.620(4), F.A.C.; Permit No. AC52-259351; PA78-11 & PA83-18; and, Applicant Request.]

B.6. **(This condition only applies to the ash conveying systems of E.U. ID Nos. 005 and 008.)** Fugitive Ash Emissions.

a. No owner or operator of an affected facility shall cause to be discharged to the atmosphere visible emissions of combustion ash from an ash conveying system (including conveyor transfer points) in excess of 5 percent of the observation period (i.e., 9 minutes per 3-hour period), as determined by EPA Reference Method 22 observations as specified in 40 CFR 60.58b(k), except as provided in paragraphs b. and c.

b. The emission limit specified in paragraph a. does not cover visible emissions discharged inside buildings or enclosures of ash conveying systems; however, the emission limit specified in paragraph a. does cover visible emissions discharged to the atmosphere from buildings or enclosures of ash conveying systems.

c. The provisions of paragraph a. do not apply during maintenance and repair of ash conveying systems.

[Rule 62-204.800(9)(b)6., F.A.C.; and, 40 CFR 60.36b & 40 CFR 60.55b.]

Excess Emissions

Rule 62-210.700 (Excess Emissions), F.A.C., cannot vary any requirement of an EG, NSPS or NESHAP provision.

B.7. Excess Emissions Allowed. Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. [Rule 62-210.700(1), F.A.C.]

B.8. Excess Emissions Prohibited. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]

Monitoring of Operations

B.9. Operation and Maintenance Plans. A separate Operation and Maintenance (O&M) plan shall be on file with the Compliance Authority for the hydrated lime storage silo and associated baghouse, lime storage silo and associated baghouse, activated carbon storage silo and associated baghouse, the RSPB and associated baghouse, and the ACB and associated scrubber. These emissions units and associated control devices shall be operated and maintained in accordance with the submitted O&M plans. The O&M documentation logs shall be maintained for a minimum of the most recent five years and be made available for inspection upon request. [Rule 62-213.440(b), F.A.C.; and, Pinellas County Ordinance 97-05, Section 22, Sec. 58-128.]

Test Methods and Procedures

{Permitting note: Table 2, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

B.10. Test Methods. Required tests shall be performed in accordance with the following reference methods:

Method(s)	Description of Method(s) and Comment(s)
EPA Methods 1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
EPA Method 5	Methods for Determining Particulate Matter Emissions
EPA Method 9	Visual Determination of the Opacity of Emissions
EPA Method 22	Visual Determination of Fugitive Emissions from Material Sources

The above methods are described in Chapter 62-297, F.A.C. and/or 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Chapter 62-297, F.A.C.]

B.11. Annual Compliance Test. Except as specified in Specific Condition **B.13.**, during each federal fiscal year (October 1st to September 30th), each baghouse exhaust and the wet scrubber system outlet shall be tested to demonstrate compliance with the visible emissions (VE) limitation. [Rule 62-297.310(7), F.A.C.]

B.12. Compliance Test Prior To Renewal. Prior to permit renewal, each baghouse exhaust and the wet scrubber system outlet shall be tested to demonstrate compliance with the VE limitation. [Rule 62-297.310(7)(a)3., F.A.C.]

B.13. Visible Emissions Test in Lieu of PM Stack Test. The owner or operator is permitted to comply with the VE limit and the VE testing requirement in lieu of regularly demonstrating compliance with each PM limitation. If the Department has reason to believe that any particulate matter limitation is not being met, it shall require compliance be demonstrated by conducting a particulate matter test in accordance with EPA Method 5 specified at 40 CFR 60 Appendix A. [Rules 62-4.070(3), 62-4.160(2), 62-210.200 (PTE), 62-297.620(1)-(3) & 62-297.620(4), F.A.C.; Permit No. AC52-259351; PA78-11 & PA83-18; and, Applicant Request.]

B.14. Visible Emissions Test. The duration of each EPA Method 9 test shall be 30 minutes. [Rule 62-297.310(4)(a)2., F.A.C.]

B.15. Common Testing Requirements. Unless otherwise specified above, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

Recordkeeping and Reporting Requirements

B.16. Reporting Schedule. The following report shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition
Excess Emissions from Malfunctions, if requested by the Compliance Authority	Every 3 months (quarter)	**B.17.**

[Rule 62-210.700(6), F.A.C.]

B.17. Excess Emissions from Malfunctions. In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the Compliance Authority in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Compliance Authority. [Rule 62-210.700(6), F.A.C.]

B.18. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440, F.A.C.]

*{Permitting note: Specific conditions **B.19.** - **B.22.** only apply to the ash conveying systems of E.U. ID Nos. 005 and 008.}*

EG 40 CFR 60, Subpart Cb Requirements

B.19. EG Requirements - General Applicability and Definitions. These emissions units shall comply with all applicable requirements of 40 CFR 60, Emission Guidelines and Compliance Times which have been adopted by reference in Rule 62-204.800(9), F.A.C., except that the term "Administrator," when used in any provision of 40 CFR 60 that is delegated to the Department by the U.S. Environmental Protection Agency, shall mean the Secretary or the Secretary's designee. [Rule 62-204.800(9)(a), F.A.C.]

B.20. EG Requirements - Subpart Cb. These emissions units shall comply with all applicable requirements of 40 CFR 60, Subpart Cb, Emissions Guidelines (EG) and Compliance Times for Large Municipal Waste Combustors, which have been adopted and incorporated by reference in Rule 62-204.800(9), F.A.C. These

emissions units shall comply with **Appendix 40 CFR 60 Subpart Cb** included with this permit. [Rule 62-204.800(9)(b), F.A.C.]

NSPS 40 CFR 60, Subpart A & Eb Requirements

{Permitting note(s): The EG 40 CFR 60, Subpart Cb, cross references conditions (applicable requirements) that are contained in the NSPS 40 CFR 60, Subparts A and Eb.}

B.21. NSPS Requirements - Subpart Eb. Except as otherwise provided in this permit, these emissions units shall comply with all applicable provisions of 40 CFR 60, Subpart Eb, Large Municipal Waste Combustors, adopted and incorporated by reference in Rule 62-204.800(8)(b), F.A.C.; except that the Secretary is not the Administrator for purposes of the authorities cited at 40 CFR 60.50b(n). These emissions units shall comply with all applicable provisions of **Appendix 40 CFR 60 Subpart Eb** included with this permit. [Rule 62-204.800(8)(b)7., F.A.C.]

B.22. NSPS Requirements - Subpart A. This emissions unit shall comply with all applicable requirements of 40 CFR 60, Subpart A, General Provisions, including:

40 CFR 60.7, Notification and Recordkeeping
40 CFR 60.8, Performance Tests
40 CFR 60.11, Compliance with Standards and Maintenance Requirements
40 CFR 60.12, Circumvention
40 CFR 60.13, Monitoring Requirements
40 CFR 60.19, General Notification and Reporting Requirements,

which have been adopted by reference in Rule 62-204.800(8)(d), F.A.C.; except that the Secretary is not the Administrator for purposes of 40 CFR 60.4, 40 CFR 60.8(b)(2) and (3), 40 CFR 60.11(e)(7) and (8), 40 CFR 60.13(g), (i) and (j)(2), and 40 CFR 60.16. This emissions unit shall comply with all applicable provisions of **Appendix 40 CFR 60 Subpart A** included with this permit. [Rule 62-204.800(8)(d), F.A.C.]

The specific conditions in this section apply to the following emissions units:

E.U. ID No.	Brief Description
009	Municipal Solid Waste Landfill

The Pinellas County Resource Recovery Facility contains a contiguous landfill, Bridgeway Acres. It has a maximum design capacity of 24.5 million megagrams (Mg), of which approximately 6.2 million Mg has been consumed. The landfill is a Class I landfill. This site first accepted waste in 1975 and was modified in 1985 and in 2007. The landfill currently accepts both municipal solid waste and ash from the resource recovery facility. The yearly acceptance rate varies, depending on how much total waste is received and the availability of the plant. From 2000-2010, an average of approximately 210,000 Mg/ year, with a minimum of 149,704 and a maximum of 336,228 Mg/year was landfilled {note: these waste tonnage quantities exclude resource recovery facility ash}. The landfill is an active asbestos waste disposal site and has a designated area where asbestos is placed. The anticipated landfill closure date is 2080. In compliance with 40 CFR 60, Subpart Cc regulations adopted and incorporated by Rule 62-204.800(9)(c), F.A.C., nonmethane organic compounds (NMOC) emissions from Bridgeway acres were calculated. Tier I calculation yielded an NMOC value of 249 Mg/year, which is greater than the threshold NMOC value of 50 Mg/yr. Tier II testing was used to obtain a parameter for NMOC calculation specific to the Bridgeway Acres landfill. The Tier II calculated value and subsequent annual estimates have been below the 50 Mg/yr threshold NMOC value and therefore a gas collection and control system was not required to be installed at this landfill site.

{Permitting note(s): This emissions unit is regulated under Rule 62-210.300, F.A.C., Permits Required; 40 CFR 60, Subpart Cc, Emissions Guidelines (EG) and Compliance Times for Municipal Solid Waste Landfills; and, 40 CFR 61, Subpart M, National Emission Standards for Hazardous Air Pollutants (NESHAP) for Asbestos.}

Essential Potential to Emit (PTE) Parameters

C.1. Hours of Operation. This emissions unit may operate continuously (8,760 hours/year). [Rule 62-210.200 (Definitions - Potential to Emit (PTE), F.A.C.]

Emission Limitations and Standards

Unless otherwise specified, the averaging time for Specific Conditions **C.2.** is based on the specified averaging time of the applicable test method.

C.2. NMOC Emission Rate. The owner or operator shall calculate the NMOC emission rate annually. [Rule 62-204.800(9)(c), F.A.C.; and, 40 CFR 60, Subpart Cc - 40 CFR 60.33c(e).]

Test Methods and Procedures

C.3. Test Methods. The owner or operator shall retest the site-specific NMOC concentration using the methods specified in 40 CFR 60.754(a)(3)(iii) adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rule 62-204.800(8), F.A.C.; and, 40 CFR 60, Subpart WWW - 40 CFR 60.754(a)(3)(iii).]

Recordkeeping and Reporting Requirements

C.4. Reporting Schedule. The following report shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition
NMOC Emission Rate Report	Annually	See **Appendix 40 CFR 60 Subpart Cc**, 40 CFR 60.33c(e).

[Rule 62-204.800(9)(c), F.A.C.; and, 40 CFR 60, Subpart Cc.]

C.5. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440, F.A.C.]

EG 40 CFR 60, Subpart Cc Requirements

C.6. EG Requirements - General Applicability and Definitions. This emissions unit shall comply with all applicable requirements of 40 CFR 60, Emission Guidelines and Compliance Times which have been adopted by reference in Rule 62-204.800(9), F.A.C.; except that the term "Administrator," when used in any provision of 40 CFR 60 that is delegated to the Department by the U.S. Environmental Protection Agency, shall mean the Secretary or the Secretary's designee. [Rule 62-204.800(9)(a), F.A.C.]

C.7. EG Requirements - Subpart Cc. This emissions unit shall comply with all applicable requirements of 40 CFR 60, Subpart Cc, Emissions Guidelines (EG) and Compliance Times for Municipal Solid Waste Landfills, which have been adopted by reference in Rule 62-204.800(9), F.A.C., subject to the following provisions (also referred to as the "State plan"):

{the numbering as it appears in the state rule was maintained for ease of reference}

…

3. Standards for Air Emissions from MSW Landfills.

…

b. Any MSW landfill which has a design capacity greater than or equal to 2.5 million Megagrams and 2.5 million cubic meters but whose NMOC emission rate as of December 31, 1996, is less than 50 Megagrams per year shall comply with the provisions of 40 CFR 60.752(b)(2)(i) through (v) commencing from December 31 of the first year after 1996 for which the nonmethane organic compound emission rate equals or exceeds 50 Megagrams per year.

…

5. Reporting and Recordkeeping. Each owner or operator of an MSW landfill to which paragraph 62-204.800(9)(c), F.A.C., applies shall comply with the reporting and recordkeeping provisions of 40 CFR 60.757 and 758, as applicable. The provisions of 40 CFR 60.754, as applicable, shall be used to calculate the landfill NMOC emission rate for the purposes of the submittal of NMOC emission rate reports and determining whether the landfill has a nonmethane organic compound (NMOC) emission rate of 50 Megagrams per year or more.

…

This emissions unit shall comply with **Appendix 40 CFR 60 Subpart Cc** included with this permit. [Rule 62-204.800(9)(c), F.A.C.]

NSPS 40 CFR 60, Subpart A & WWW Requirements

{Permitting note: The EG 40 CFR 60, Subpart Cc, cross references conditions (applicable requirements) that are contained in the NSPS 40 CFR 60, Subparts A and WWW.}

C.8. NSPS Requirements - Subpart WWW. Except as otherwise provided in this permit, this emissions unit shall comply with all applicable provisions of 40 CFR 60, Subpart WWW, Municipal Solid Waste Landfills, adopted by reference in Rule 62-204.800(8)(b), F.A.C.; except that the Secretary is not the Administrator for purposes of 40 CFR 60.754(a)(5). This emissions unit shall comply with all applicable provisions of **Appendix 40 CFR 60 Subpart WWW** included with this permit. [Rule 62-204.800(8)(b)75., F.A.C.]

C.9. NSPS Requirements - Subpart A. This emissions unit shall comply with all applicable requirements of 40 CFR 60, Subpart A, General Provisions, including:

40 CFR 60.7, Notification and Recordkeeping
40 CFR 60.8, Performance Tests
40 CFR 60.11, Compliance with Standards and Maintenance Requirements
40 CFR 60.12, Circumvention
40 CFR 60.13, Monitoring Requirements

40 CFR 60.19, General Notification and Reporting Requirements,
which have been adopted by reference in Rule 62-204.800(8)(d), F.A.C.; except that the Secretary is not the Administrator for purposes of 40 CFR 60.4, 40 CFR 60.8(b)(2) and (3), 40 CFR 60.11(e)(7) and (8), 40 CFR 60.13(g), (i) and (j)(2), and 40 CFR 60.16. This emissions unit shall comply with all applicable provisions of **Appendix 40 CFR 60 Subpart A** included with this permit. [Rule 62-204.800(8)(d), F.A.C.]

NESHAP 40 CFR 61, Subpart A & M - Asbestos Disposal Site Standards

C.10. NESHAP 40 CFR 61 Requirements - Subpart M [Set A]. The asbestos waste disposal sites shall comply with all applicable requirements of 40 CFR 61, Subpart M, National Emission Standard for Asbestos, which have been adopted by reference in Rule 62-204.800(10)(b), F.A.C.; except that the Secretary is not the Administrator for the purposes of 40 CFR 61.149(c)(2), 40 CFR 61.150(a)(4), 40 CFR 61.151(c), 40 CFR 61.152(b)(3), 40 CFR 61.154(d), and 40 CFR 61.155(a). This emissions unit shall comply with all applicable provisions of **Appendix 40 CFR 61, Subpart M** "Set A," included with this permit. [Rule 62-204.800(10)(b)8., F.A.C.]

C.11. NESHAP 40 CFR 61 Requirements - Subpart A. The asbestos waste disposal sites shall comply with all applicable requirements of 40 CFR 61, Subpart A, General Provisions, which have been adopted by reference in Rule 62-204.800(10)(d), F.A.C.; except for 40 CFR 61.08 and except that the Secretary is not the Administrator for the purposes of 40 CFR 61.04, 40 CFR 61.11, and 40 CFR 61.18. In lieu of the process set forth in 40 CFR 61.08, the Department will follow the permit processing procedures of Rule 62-4.055, F.A.C. The asbestos waste disposal sites shall comply with all applicable provisions of **Appendix 40 CFR 61 Subpart A - General Provisions** included with this permit. [Rule 62-204.800(10)(d), F.A.C.]

The specific conditions in this section apply to the following emissions units:

E.U. ID No.	Brief Description
	Engines
011	Emergency Generator - Main Lift Station
015	Portable Emergency Generator - Pond A
016	Emergency Generator - Maintenance Building
014	Diesel Tub Grinder (primary engine and secondary engine)
012	Emergency Fire Pump Engine (EPA Tier 3 Certified)
017	Emergency Generator - Scale House (EPA Tier 3 Certified)
018	Emergency Generator - Administrative Building (EPA Tier 3 Certified)

This section is comprised of eight compression ignition (CI) type engines. Air pollutant emissions from these engines are uncontrolled.

Identification	In-service Date	Manufacturer Name/Model No.	Horsepower (hp) Displacement, liters (L)	Applicable Requirement(s) for Compression Ignition Type Engines
011 Emergency Generator - Main Lift Station	2006	Cummins®, Model DGFA5768846	252 hp	40 CFR 63, Subparts A and ZZZZ This engine is an 'existing' unit.
015 Portable Emergency Generator - Pond A	<1998	John Deere®, Model 6059T	166 hp	40 CFR 63, Subparts A and ZZZZ This engine is an 'existing' unit.
016 Emergency Generator - Maintenance Building	<2005	Kohler Power System® 80, Model #GN 80919	107 hp	40 CFR 63, Subparts A and ZZZZ This engine is an 'existing' unit.
014 Diesel Tube Grinder (primary engine and secondary engine)	2000 & 1997	Morbark®, Engine Model #3412	860 hp & 750 hp	40 CFR 63, Subparts A and ZZZZ These engines are 'existing' units.
012 Emergency Fire Pump Engine (EPA Tier 3 Certified)	2009	Clark®, Model JU6H-UFM0	207 hp 6.8 liters (L)	40 CFR 63, Subparts A and ZZZZ 40 CFR 60, Subparts A and IIII This engine is a 'new' unit.
017 Emergency Generator - Scale House (EPA Tier	2009	Caterpillar®, Model #C6.6	190 hp 6.6 liters (L)	40 CFR 63, Subparts A and ZZZZ 40 CFR 60, Subparts A and IIII

3 Certified)				This engine is a 'new' unit.
018 Emergency Generator - Administrative Building (EPA Tier 3 Certified)	2009	Caterpillar®, Model #C9	402 hp 8.8 liters (L)	40 CFR 63, Subparts A and ZZZZ 40 CFR 60, Subparts A and IIII This engine is a 'new' unit.

{Permitting notes: These emissions units, engines, are regulated under 40 CFR 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE) adopted in Rule 62-204.800(11)(b), F.A.C.

The 'new' engines must meet 40 CFR 60, Subpart IIII, NSPS for Compression Ignition Internal Combustion Engines (CI-ICE).}

Emission Limitations and Standards

{Permitting note: The 'existing' stationary CI engines with ≤ 500 HP (E.U. ID Nos. 011, 015 & 016) do not have specific numerical emission limitations and standards.}

Test Methods and Procedures

D.1. Common Testing Requirements. Any tests, if required, shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

Recordkeeping and Reporting Requirements

D.2. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440, F.A.C.]

NESHAP 40 CFR 63, Subpart A & ZZZZ Requirements

D.3. 40 CFR 63 Requirements - Subpart A. These emissions units shall comply with all applicable requirements of 40 CFR 63, Subpart A, General Provisions, which have been adopted by reference in Rule 62-204.800(11)(d)1., F.A.C., except that the Secretary is not the Administrator for purposes of 40 CFR 63.5(e), 40 CFR 63.5(f), 40 CFR 63.6(g), 40 CFR 63.6(h)(9), 40 CFR 63.6(j), 40 CFR 63.13, and 40 CFR 63.14. These emissions units shall comply with **Appendix 40 CFR 63 Subpart A** included with this permit. [Rule 62-204.800(11)(d)1., F.A.C.]

D.4. 40 CFR 63 Requirements - Subpart ZZZZ [Generally Applicable Requirements]. The engine shall comply with all applicable requirements of 40 CFR 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE), which have been adopted by reference in Rule 62-204.800(11)(b), F.A.C. The engine shall comply with **Appendix 40 CFR 63 Subpart ZZZZ "Generally Applicable Requirements,"** included with this permit. **Appendix 40 CFR 63 Subpart ZZZZ "Generally Applicable Requirements,"** includes generally applicable requirements. [Rule 62-204.800(11)(b), F.A.C.]

D.5. **(applies to E.U. ID Nos. 011, 015 & 016 only)** 40 CFR 63 Requirements - Subpart ZZZZ [Set 2(a)(i)]. E.U. ID Nos. 011, 015 & 016 shall comply with the specific applicable requirements of 40 CFR 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE), which have been adopted by reference in Rule 62-204.800(11)(b), F.A.C. E.U. ID Nos. 011, 015 & 016 shall comply with **Appendix 40 CFR 63 Subpart ZZZZ, "Set 2(a)(i) Emergency CI"** included with this permit. **Appendix 40 CFR 63 Subpart ZZZZ, "Set 2(a)(i) Emergency CI"**

includes specific applicable requirements which were customized from the entire 40 CFR 63, Subpart ZZZZ. [Rule 62-204.800(11)(b), F.A.C.]

D.6. (applies to E.U. ID No. 014 only) 40 CFR 63 Requirements - Subpart ZZZZ [Set 2(a)(ii)]. E.U. ID No. -014 shall comply with the specific applicable requirements of 40 CFR 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE), which have been adopted by reference in Rule 62-204.800(11)(b), F.A.C. E.U. ID No. 014 shall comply with **Appendix 40 CFR 63 Subpart ZZZZ, "Set 2(a)(ii) Non-Emergency CI"** included with this permit. **Appendix 40 CFR 63 Subpart ZZZZ, "Set 2(a)(ii) Non-Emergency CI"** includes specific applicable requirements which were customized from the entire 40 CFR 63, Subpart ZZZZ. [Rule 62-204.800(11)(b), F.A.C.]

NSPS 40 CFR 60, Subpart A & IIII Requirements (apply to E.U. ID Nos. 012, 017 & 018 only)

D.7. (applies to E.U. ID Nos. 012, 017 & 018 only) NSPS Requirements - Subpart A. These emissions units shall comply with all applicable requirements of 40 CFR 60, Subpart A, General Provisions, including:

40 CFR 60.7, Notification and Recordkeeping
40 CFR 60.8, Performance Tests
40 CFR 60.11, Compliance with Standards and Maintenance Requirements
40 CFR 60.12, Circumvention
40 CFR 60.13, Monitoring Requirements
40 CFR 60.19, General Notification and Reporting Requirements,

which have been adopted by reference in Rule 62-204.800(8)(d), F.A.C.; except that the Secretary is not the Administrator for purposes of 40 CFR 60.4, 40 CFR 60.8(b)(2) and (3), 40 CFR 60.11(e)(7) and (8), 40 CFR 60.13(g), (i) and (j)(2), and 40 CFR 60.16. These emissions units shall comply with all applicable provisions of **Appendix 40 CFR 60 Subpart A** included with this permit. [Rule 62-204.800(8)(d), F.A.C.]

D.8. (applies to E.U. ID No. 012 only) 40 CFR 60, Subpart IIII [Set B]. Pursuant to 40 CFR 63.6590(c), the permittee must comply with the RICE MACT for E.U. ID No. 012, by meeting the requirements of the NSPS 40 CFR 60, Subpart IIII, attached as **Appendix 40 CFR 60 Subpart IIII "Set B,"** to this permit. Pursuant to 40 CFR 63.6590(c), no further requirements apply to the engine under 40 CFR 63 Subpart ZZZZ. [Rules 62-204.800(11) & (8), F.A.C.]

D.9. (applies to E.U. ID Nos. 017 & 018 only) 40 CFR 60, Subpart IIII [Set G]. Pursuant to 40 CFR 63.6590(c), the permittee must comply with the RICE MACT for E.U. ID Nos. 017 & 018, by meeting the requirements of the NSPS 40 CFR 60, Subpart IIII, attached as **Appendix 40 CFR 60 Subpart IIII "Set G,"** to this permit. **Appendix 40 CFR 60 Subpart IIII "Set G,"** includes specific applicable requirements which were customized from the entire 40 CFR 60, Subpart IIII. Pursuant to 40 CFR 63.6590(c), no further requirements apply to the engine under 40 CFR 63 Subpart ZZZZ. [Rules 62-204.800(11) & (8), F.A.C.]

SECTION IV. APPENDICES.

The Following Appendices are Enforceable Parts of This Permit:

Appendix A, Glossary.
Appendix ASP, DEP Order dated April 28, 2010.
Appendix ATP, U.S. EPA Alternative Test Procedure Approval dated June 3, 2004.
Appendix BW, Biomedical Waste Definitions.
Appendix I, List of Insignificant Emissions Units and/or Activities.
Appendix RR, Facility-wide Reporting Requirements.
Appendix TR, Facility-wide Testing Requirements.
Appendix TV, Title V General Conditions.
Appendix U, List of Unregulated Emissions Units and/or Activities.

Appendix 40 CFR 60 Subpart A, General Provisions (version dated 2/5/2010).
Appendix 40 CFR 60 Subpart Cb (version dated 03/24/2010).
Appendix 40 CFR 60 Subpart Cc (version dated 04/21/2008).
Appendix 40 CFR 60 Subpart Eb (version dated 04/21/2008).
Appendix 40 CFR 60 Subpart IIII "Set B," Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (version dated 07/11/2006).
Appendix 40 CFR 60 Subpart IIII "Set G," Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (version dated 07/11/2006).
Appendix 40 CFR 60 Subpart WWW (version dated 08/06/2009).
Appendix 40 CFR 61 Subpart A, General Provisions (version dated 05/06/2004).
Appendix 40 CFR 61 Subpart M "Set A" (version dated 08/19/2004).
Appendix 40 CFR 63 Subpart A, General Provisions (version dated 01/29/2008).
Appendix 40 CFR 63 Subpart ZZZZ "Generally Applicable Requirements," National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (version dated 06/30/2010).
Appendix 40 CFR 63 Subpart ZZZZ "Set 2(a)(i) Emergency CI," National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (version dated 06/30/2010).
Appendix 40 CFR 63 Subpart ZZZZ "Set 2(a)(ii) Non-Emergency CI," National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (version dated 08/20/2010).