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05/20/05

- CERTIFIED MAIL - RETURN RECEIPT REQUESTED -

Christopher M. Carey
General Manager
Wheelabrator South Broward Inc.
4400 South State Road 7
Ft. Lauderdale, FL 33314

**RE: Wheelabrator South Broward, Inc.
South Broward County Resource Recovery
Modification to Conditions of Certification
DEP Case Number PA 85-21F
OGC Case Number 05-0430**

FINAL ORDER MODIFYING CONDITIONS OF CERTIFICATION

Dear Mr. Carey:

On December 8, 2004, the Department of Environmental Protection (DEP) issued a final Title – V permit revision (No. 0112119-008-AV) for South Broward County Resource Recovery Facility (Wheelabrator). Review of the Conditions of Certification for Wheelabrator indicated that a modification would be necessary.

On or before April 8, 2005 all parties to the certification proceeding were provided with notice by certified mail of the Department's intent to modify the Conditions of Certification for this facility, along with a copy of the proposed Order Modifying Conditions of Certification. Additionally, on April 8, 2005, notice of the Department's intent to modify the Conditions of Certification for this facility was published on the Department's internet home page at <http://www.dep.state.fl.us/> under the link or button titled "Official Notices." Those notices specified that pursuant to Section 403.516, Florida Statutes ("F.S."), and Rule 62-17.211, Florida Administrative Code ("F.A.C."), all parties to the certification proceeding have 45 days from the issuance of notice by mail to such party's last address of record in which to file a written objection to the modification; that any person who is not already a party to the certification proceeding and whose substantial interests will be affected by the requested modification has 30 days from the date of publication of the public notice on the Department's internet home page to object in writing; that failure to act within the time frame constitutes a waiver of the right to become a party; and that the Department will issue an Order Modifying the Conditions of Certification for this facility if no written objections are received by the Department.

No objections to the modification have been received by the Department. The Conditions of Certification for South Broward County Resource Recovery Facility are hereby modified as follows:

- All reference to 'permittee' is changed to licensee

III. FACILITIES OPERATION

The ~~Permittee~~ Licensee shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems used by the ~~Permittee~~ Licensee to achieve compliance with the terms and conditions of this certification. Stoppages of landfill operations induced by weather conditions shall be allowed until the weather permits operations to resume. In the event of a malfunction of a resource recovery boiler's pollution control system, that unit's furnace emissions must be shifted to the extent feasible to one or both of the remaining units having a properly functioning pollution control system. In the event of a prolonged (thirty (30) day or more) equipment malfunction or shutdown of air pollution control equipment, operation could be permitted to continue to take place under a consent order, only if the ~~Permittee~~ Licensee demonstrates that such operation will be in compliance with all applicable ambient air quality standards and PSD increments, solid waste rules, domestic waste rules and industrial waste rules.

Additionally, during such malfunction or shutdown, the source shall comply with all other requirements of this certification and all applicable state and federal emission standards not affected by the malfunction or shutdown which is the subject of the consent order. Administrative action will not be initiated in the event of such a malfunction for 25 days following a malfunction unless there is an imminent health threat. However, if at thirty (30) days following a malfunction compliance has not been achieved by the source, an Order for Corrective Action may be immediately imposed upon the Applicant, subject to the provisions of Chapter 120 of the Florida Statutes. Unless otherwise authorized by these Conditions of Certification, excess air pollutant emissions during start-up, malfunction or shutdown exceeding the emission limitations set forth herein shall not be permitted to occur for longer than three (3) hours without Southeast District Office approval. Operational stoppages exceeding four (4) hours and as defined in the operational contingency plans as specified in Condition XVII are to be reported as specified in Condition II. Identified operational malfunctions which do not stop operation but do compromise the integrity of the operation shall be reported to the Southeast District Office as specified in Condition II.

A.I. Operational Safeguards

The overall design and layout of the facilities shall be such as to mitigate potential adverse effects to humans and the environment. Security control measures shall be utilized to prevent exposure of the public to hazardous conditions. The Federal Occupational Safety and Health Standards will be complied with during construction and operation. The safety standards specified under Section 440.56, Florida Statutes, by the Industrial Safety Section of the Florida Department of Commerce will be complied with during operation.

BK. Noise

Operational noises shall not exceed local noise ordinance limitations nor those noise standards imposed by zoning.

XIV. OPERATION AIR

A. Air General and Administrative Requirements

1. All documents related to applications requesting permission to construct, operate or modify an emissions unit should be submitted to the Bureau of Air Regulation, MS 5500, Florida Department of Environmental Protection, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, telephone (850) 488-1344, and the Siting Coordination Office, MS 48, Florida Department of Environmental Protection, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, telephone (850) 487-0472245-8001. All documents related to reports, tests, and notifications should be submitted to the Department's Southeast District office, 400 N Congress Avenue, Suite 200 West Palm Beach, Florida 33401, phone number (561)681-6600.

2. The operation of the Resource Recovery Facility shall be in accordance with all applicable provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-214, 62-256, 62-296, 62-297, 62-701, and 62-702, Florida Administrative Code, and permit PSD-FL-105(B) as amended. The terms, conditions, requirements, limitations, and restrictions set forth in Final Title V Permit No. 0112119-008-AV, which is attached as Appendix A to these Conditions, and any modification or amendment to such Title V permit, are incorporated by reference herein, and are binding and enforceable Conditions of this Certification. The licensee is subject to and shall comply with the terms, conditions, requirements, limitations, restrictions set forth in Appendix A. A violation of the terms conditions, requirements, limitations and restrictions in Appendix A is a violation of these Conditions of Certification. In addition to the foregoing, the Permittee shall comply with the following specific Conditions of Certification:

3. The Department is delegated the authority to modify these Conditions of Certification to conform them to any subsequently issued amendment or modification to Permit No. 0112119-008-AV, pursuant to Condition XII.B

4. The provisions set forth in Conditions XIV.B, C, and D are excerpted from Permit Title V - 0112119-008-AV.

5. Records shall be made and kept to demonstrate compliance in accordance with Title V permit special conditions B.89-111.

B. Emission Units

1. Emissions Units 001, 002, and 003 Limitations upon Operation of Units 1-3

a. Description: Each of the three municipal waste combustors (MWCs) has a nominal design rate capacity of 750 tons MSW per day and 281 MMBtu per hour heat input (with MSW having a heating value of 4,500 Btu per pound). A maximum (short-term) capacity of 863 tons of waste per day and 323.6 mmBtu per hour heat input (115% rated capacity) is allowed. Short-term capacity is limited by limiting steam production, which effectively limits heat input. The maximum steam production rate is 192,000 lbs/hr, with a net steam energy of 5,600 Btu/lb of steam (the net steam energy may be calculated as the difference in enthalpy between the steam at the superheater outlet and the feedwater at the inlet). The following emissions standards apply to the following units after improvements to comply with 40 CFR 60 Subpart Cb are completed, and the initial

performance tests are completed. [Rule 62-204.800(8)(b), F.A.C., and 40 CFR 60 Subpart Cb]. The units are described as follows:

E.U. ID No.	Brief Description
-001	863 TPD (maximum) Municipal Waste Combustor & Auxiliary Burners - Unit 1
-002	863 TPD (maximum) Municipal Waste Combustor & Auxiliary Burners - Unit 2
-003	863 TPD (maximum) Municipal Waste Combustor & Auxiliary Burners - Unit 3

EMISSIONS UNIT NO.	EMISSIONS UNIT DESCRIPTION
001	323.6 MMBtu/hr (maximum) Municipal Waste Combustor & Auxiliary Burners—Unit No. 1
002	323.6 MMBtu/hr (maximum) Municipal Waste Combustor & Auxiliary Burners—Unit No. 2
003	323.6 MMBtu/hr (maximum) Municipal Waste Combustor & Auxiliary Burners—Unit No. 3

b. Fuels and Capacity: The primary fuel for this facility is municipal solid waste (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), F.S. The authorized fuels for the facility also include the other solid wastes that are not MSW which are described in specific condition B.15 of the Title V Permit (Appendix A).

Each municipal waste combustor (MWC) unit shall have a maximum capacity of 192,000 pounds of steam produced per hour based on a 4-hour block averaged measurement. The maximum individual MWC throughput shall not exceed 863 tons MSW per day (2,589 tons per day entire facility) and 323.6 MMBtu/hr (115% rated capacity), as determined monthly (see Title V Permit specific condition B-109).

c. Controls: Pollution control equipment includes the following for each boiler:

- (1) A particulate emission control device for the control of particulates.
- (2) An acid gas control device designed to remove at least 90% of the acid gases.
- (3) A selective non-catalytic reduction system to control nitrogen oxides emissions.
- (4) Mercury is controlled by source separation techniques pursuant to Rule 62-296.416,

F.A.C. [PSD-FL-105(B)].

2. Emissions unit-004

A 236 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 Wheelabrator Air Pollution Control Jet III baghouse (Model No. 1016, BA-108) is used to control particulate matter emissions during silo filling. The baghouse parameters are as follows: stack height = 102 feet; exit dimensions (rectangular vent) = 2.67 x 1 feet; exit temperature = 40-100 °F, actual volumetric flow rate = 1,500 acfm. The initial startup date of the silo was February, 1992.

3. Emissions unit-005

a. Ash Handling System:

It receives fly ash and spray dryer reaction products (calcium sulfate, calcium chloride, calcium hydroxide, calcium fluoride). Particulate matter and visible emissions from the ash handling system are controlled by wet processing in an enclosed building. The initial startup date of the ash handling system was April 5, 1991.

b. Ash Handling Facilities:

The potential for dust generation by ash handling activities will be mitigated by quenching of conditioning the ash prior to loading in ash transport trucks. Ash handling facilities shall be enclosed (including the proposed future metal recovery area). Unprocessed refuse storage areas which must be open for operational purposes (e.g., tipping floor of the refuse bunker while trucks are entering and leaving) will be under negative air pressure. Residue from the grates and grate siftings shall be discharged into the bottom ash quenching system, and ash from the combustor/boiler and fabric filter hoppers shall be discharged into the fly ash conditioning system during normal operations to minimize visible dust generation. The ash/residue in the Ash Handling Building shall remain sufficiently moist to minimize dust during storage and handling operations. Compliance with this condition shall be determined in accordance with Condition XIV.A.1.(1)(b). [Rules 62-204.800(8)(b) and 62-4.070(3), F.A.C., 40 CFR 60.36b and 60.55b]

4. Continuous Monitors

For each boiler, the Licensee shall install, calibrate, maintain, and operate a continuous emission monitoring system for measuring carbon monoxide at the combustor outlet and record the output of the system as well as the following:

a. The continuous emission monitoring system shall be operated according to Performance Specification 4A in Appendix B of 40 CFR 60.

b. During each relative accuracy test run of the continuous emission monitoring system required by Performance Specification 4A in Appendix B of 40 CFR 60, carbon monoxide and oxygen (or carbon dioxide) data shall be collected concurrently (or within a 30- to 60-minute period) by both the continuous emission monitors and the test methods specified in paragraphs (A) and (B).

(1) For carbon monoxide, EPA Reference Method 10, 10A, or 10B shall be used.

(2) For oxygen (or carbon dioxide), EPA Reference Method 3, 3A, or 3B, as applicable shall be used.

(3) The span value of the continuous emission monitoring system shall be 125 percent of the maximum estimated hourly potential carbon monoxide emissions of the municipal waste combustor unit.

5. Metal Recovery Facility

A metal recovery area may be constructed and shall be enclosed in a building adjacent to the existing ash loadout area. All bottom ash is currently quenched with water after leaving each boiler. All bottom ash shall continue to be quenched after leaving each boiler so that the resulting bottom ash will contain approximately 20 to 30 percent moisture and will not generate fugitive dust. Ash being processed at this facility shall continue to meet the requirements of XIV.B.3.

C. Emissions Limiting Standards

1. Emissions Limits Standards:

~~{Permitting Note: Each of the three municipal waste combustors (MWCs) has a nominal design rate capacity of 750 tons MSW per day and 281 MMBtu per hour (with MSW having a heating value of 4,500 Btu per pound). A maximum capacity of 863 tons per day and 323.6 MMBtu per hour heat input (115% rated capacity) is allowed. Short term capacity is limited by limiting steam production (maximum of 192,000 lb/hr), which effectively limits heat input.}~~

EQUIVALENT EMISSIONS ²				
POLLUTANT	EMISSIONS STANDARDS ¹	LBS/MMBtu	LBS/HR	TONS/YR
PM ³ Particulate Matter	27 mg/dscm or 0.012 gr/dscf corrected to 7% O ₂	0.0243	7.85	34.4
VE Visible Emissions	10% (6 minute block average)			
Cd Cadmium	0.040 mg/dscm corrected to 7% O ₂	3.7E-05	0.012	0.051
Be ⁴ Beryllium	0.001 mg/dscm corrected to 7% O ₂	9.3E-07	0.0003	0.0013
Pb Lead	0.44 mg/dscm corrected to 7% O ₂	4.4E-04	0.142	0.62
Hg Mercury	70 µg/dscm or 85% reduction by weight or volume corrected to 7% O ₂ (whichever is less stringent)	6.2E-05	0.02	0.09
SO ₂ Sulfur Dioxide	29 ppmv or 75% reduction by weight or volume corrected to 7% O ₂ (whichever is less stringent)	0.11	35.1	153.7
HCl Hydrochloric Acid	29 ppmv or 95% reduction corrected to 7% O ₂ (whichever is less stringent)	0.04	12.6	55
Dioxins/Furans	30 ng/dscm corrected to 7% O ₂	2.7E-08	8.7E-06	3.8E-05
NO _x Nitrogen Oxides	205 ppmv corrected to 7% O ₂	0.352	114	499
CO Carbon Monoxide	100 ppmv corrected to 7% O ₂	0.105	33.9	148.5
F Fluorides	Not to exceed 0.0040 lb/MMBtu (BACT limit from original permit)	0.0040	1.29	5.66

1. These maximum allowable emission standards are applicable to each MWC unit and shall be used in demonstrating compliance with the compliance procedures specified in specific condition XIV.A.1.e. [Rules 62-4.070 and 62-296.416, F.A.C., 40 CFR 60.33b and 40 CFR 60.34b].

2. Permitting note: These equivalent emissions are listed for the purposes of providing information on the potential to emit for each MWC and not in determining compliance with applicable emission standards.

3. This limit for PM is more restrictive than the emission limit for PM in 40 CFR 60.43b.

4. Beryllium: PSD original permit limit. Not to exceed applicable NESHAP, 40 CFR 61.32(a)(Subpart C).

Basis: Equivalent emissions calculations (lb/hr and ton/yr) are based on the maximum heat input rate of 323.6 MMBtu/hr [115% rated capacity] per unit and 8760 hours of operation. Short-term capacity is limited by limiting steam production (maximum of 192,000 lb steam/hr) which effectively limits heat input.

Averaging Times

SO₂: 24-hour daily block geometric mean (midnight to midnight)
NO_x: 24-hour daily block arithmetic mean (midnight to midnight)
CO: 4-hour block arithmetic mean beginning at midnight

Opacity: 6 minutes block arithmetic mean

Abbreviations

µg/dscm: Micrograms per dry standard cubic meter
mg/dscm: Milligrams per dry standard cubic meter
ppmdv: Parts per million dry volume
ng/dscm: Nanograms per dry standard cubic meter
Dioxins/furans: Total tetra through octa-chlorinated dibenzo-p dioxins and dibenzofurans
F: Fluorides as hydrogen fluoride

Temperature: 17° C above maximum demonstrated PM control device inlet

~~(1) Visible Emissions:~~

~~(a) Excess Emissions~~

~~Excess opacity resulting from startup or shutdown shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess opacity shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration.~~

~~Emission standards apply at all times except during periods of startup/shutdown and malfunction as stated in 40 CFR 60.58b(a).~~

~~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 start up or shut down shall be prohibited.~~

~~(b) Fugitive Ash Emissions From Ash Conveying Systems:~~

~~No owner or operator of this 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% of the observation period (i.e., nine minutes per 3-hour period) as determined by EPA Reference Method 22. The five (5) percent visible ash emission limit does not cover visible ash emissions discharged inside a building or ash conveying systems, but the visible emission limit does cover visible emissions discharged to the atmosphere from buildings or enclosures of ash conveying systems (including conveyor transfer points). [Rules 62-204.800(8)(b) and 62-4.070(3), F.A.C., 40 CFR 60.36b and 60.55b]~~

~~(c) Applicable Requirements:~~

~~These units are subject to all applicable requirements of 40 CFR 60 Subpart Cb, "Emissions Control Guidelines and Compliance Schedules for Municipal Solid Waste Combustors," Subpart E, "NSPS for Incinerators," Subpart Db, "NSPS for Industrial Commercial Institutional Steam Generating Units," 40 CFR 61 Subpart C, "NESHAP for Beryllium," and Rule 62-296.416, F.A.C., Waste-to-Energy Facilities, except that where requirements in these Conditions of Certification are more restrictive, the requirements in these Conditions of Certification shall apply. [PSD FL 105(B), 40 CFR 60 Subparts Cb, E, Db, and 40 CFR 61 Subpart C]~~

~~(d) Ash Handling Facilities:~~

~~The potential for dust generation by ash handling activities will be mitigated by quenching of conditioning the ash prior to loading in ash transport trucks. Ash handling facilities shall be enclosed (including the proposed future metal recovery area). Unprocessed refuse storage areas which must be open for operational purposes (e.g., tipping floor of the refuse bunker while trucks are entering and~~

~~leaving) will be under negative air pressure. Residue from the grates and grate siftings shall be discharged into the bottom ash quenching system, and ash from the combustor/boiler and fabric filter hoppers shall be discharged into the fly ash conditioning system during normal operations to minimize visible dust generation. The ash/residue in the Ash Handling Building shall remain sufficiently moist to minimize dust during storage and handling operations. Compliance with this condition shall be determined in accordance with Condition XIV.A.1.(1)(b). [Rules 62-204.800(8)(b) and 62-4.070(3), F.A.C., 40 CFR 60.36b and 60.55b]~~

~~(2) Only distillate fuel oil or natural gas shall be used in startup burners. The annual capacity factor for use of natural gas and oil, as determined by 40 CFR 60.43b(d), shall be less than 10%. If the annual capacity factor of natural gas is greater than 10%, then the facility shall be subject to 40 CFR 60.44b.~~

~~(3) Rates~~

~~(a) Operating Rates~~

~~The maximum individual MWC throughput shall not exceed 863 tons MSW per day (2589 tons per day entire facility) and 323.6 MMBtu per hour (115%-rated capacity) nor produce in excess of 192,000 pounds of steam per hour based on a 4-hour block arithmetic average. (Compliance per new Specific Condition XIV.A.1.a.(3)(b) listed below.) [Rule 62-204.800(8)(b), F.A.C.; 40 CFR 60.31b, 60.38b, 60.51b, and 60.58b(j)] [PSD FL 105(B)/PA 85-21 and Rule 62-4.030, F.A.C.]~~

~~(b) Compliance with the Continuous Charging Rate:~~

~~The daily solid waste charging rate and hours of operation shall be determined and recorded for each MWC unit. The daily charging rate shall be determined each month on an average daily basis for each MWC unit using the Facility's truck scale weight data, refuse pit inventory, and MWC operating data for the preceding calendar month. Monthly truck scale weight records on the weight of solid waste received and processed at the facility and refuse~~

pit inventory shall be used to determine the amount of solid waste charged during the preceding calendar month on an average daily basis. The MWC load level measurements or other operating data shall be used to determine the number of operating hours per MWC unit for each day during the preceding calendar month. [Rule 62-204.800(8)(b), F.A.C. and 40 CFR 60.53(a)]

~~_____~~ (c) ~~_____~~ Unit Load

~~_____~~ Unit load means the steam load of the municipal waste combustor (MWC) measured as specified in 40 CFR 60.58b(i)(6). Each MWC unit shall not operate at a load level greater than 110 percent of the unit's maximum demonstrated unit load. The maximum demonstrated unit load is the highest 4-hour arithmetic averaged MWC unit load achieved during four consecutive hours during the most recent dioxin/furan performance stack test in which compliance with the dioxin/furan emission limit was achieved. Higher loads are allowed for testing purposes as specified at 40 CFR 60.53b(b). [Rule 62-204.800(8)(b), F.A.C.; 40 CFR 60.31b, 60.38b, 60.51b, 60.53b(b), and 60.58b(i)(8)]

~~_____~~ (d) ~~_____~~ Load Level Requirements

~~_____~~ The owner or operator of an affected facility with steam generation capability shall install, calibrate, maintain, and operate a steam flow meter or a feedwater flow meter; measure steam (or feedwater) flow in kilograms per hour (or pounds per hour) on a continuous basis; and record the output of the monitor (in accordance with the ASME method described in 40 CFR 60.58b(i)(6)). Steam (or feedwater) flow shall be calculated in 4-hour block arithmetic averages. Higher loads are allowed for testing purposes as specified at 40 CFR 60.53b(b). [Rule 62-204.800(8)(b), F.A.C.; 40 CFR 60.31b, 60.38b, 60.51b, 60.53b(b), and 60.58b(i)(6)]

~~_____~~ b. ~~_____~~ The height of the boiler exhaust stack shall not be less than 195 feet above grade.

~~_____~~ c. ~~_____~~ Capacity

~~_____~~ The incinerator boilers shall have a metal nameplate affixed in a conspicuous place on the shell showing manufacturer, model number, type waste, rate and certification number.

~~_____~~ d. ~~_____~~ Compliance Tests

~~_____~~ (1) ~~_____~~ Initial compliance tests for each combustion unit shall be conducted within 60 days after achieving maximum boiler operating capacity, but not later than 180 days after startup of the Selective Non-Catalytic Reduction (SNCR) system. Compliance tests shall be performed according to 40 CFR 60.38b. Annual tests shall be conducted within one year after initial compliance tests, unless otherwise allowed by the Department. A test protocol shall be submitted to the Department's Southeast District Office (DEPSED) and the Broward County Department of Planning and Environmental Protection (BCDPEP) at least 45 days prior to initial testing. [40 CFR 60.8, 40 CFR 60.11, Rule 62-204.800(8)(b), and Chapter 62-297, F.A.C.]

~~_____~~ (2) ~~_____~~ The following test methods and procedures for 40 CFR 60 and 61 shall be used for compliance testing:

(a) Method 1 for selection of sample site and sample traverses.

(b) Method 2 for determining stack gas flow when converting concentrations to or from mass emission limits.

(c) Method 3 for analysis for calculation of percent O₂ and CO₂.

(d) Method 4 for determining stack gas moisture content to convert the flow rate from actual standard cubic feet to dry standard cubic feet for use in converting concentrations in dry gases to or from mass emission limits.

(e) Method 5, Determination of Particulate Matter Emissions (front half catch only) from Stationary Sources (I) and (A). Pursuant to 40 CFR 60.58b(c)(3), EPA Reference Method 5 shall be used for determining compliance with the particulate matter emission limit. The minimum sample volume shall be 1.7 cubic meters. The probe and filter holder heating systems in the sample train shall be set to provide a gas temperature no greater than 160±14° C. An oxygen or carbon dioxide measurement shall be obtained simultaneously with each Method 5 run.

(f) Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources (I) and (A).

(g) Method 13B or 13A, Determination of Total Fluoride Emissions from Stationary Sources (I) and (A).

(h) Method 23, Determination of Dioxin/Furan Concentrations from Stationary Sources (I) and (A). Dioxin/Furan emission limit shall be expressed as the total mass of tetra through octa chlorinated dibenzo p dioxins and dibenzofurans. The facility may perform less frequent testing for dioxin/furan emissions as allowed by 40 CFR 60.38b(b) and with prior notice to the Department, if the emission unit's dioxin/furan emissions do not exceed 15 µg/dscm corrected to 7% O₂ or less.

(i) Method 26 or 26A, Determination of HCl emissions (I) and (A). HCl stack tests upstream and downstream of the control device(s) shall be conducted to calculate percent control to demonstrate compliance with the alternate removal limit.

(j) Method 29, Determination of Metals Emissions from Stationary Sources (I) and (A). Mercury emissions testing shall be conducted semiannually. Mercury stack tests shall be performed downstream of control devices or upstream and downstream of control devices when determining compliance with the alternative removal equipment.

(3) Continuous Compliance with Emission Limits:

2. Compliance:

a. Continuous compliance with the emission limits listed above for opacity, carbon monoxide (CO), nitrogen oxides (NO_x), and sulfur dioxide (SO₂) and for operational parameters

~~(including but not limited to oxygen measurements, steam production [(lb/hr), pressure, and temperature] or feedwater flowrate [(lb/hr), temperature of flue gas at the and fabric filter inlet flue gas temperature, carbon injection system operating parameters, temperature of the combustion zone, slake lime utilization and power generation) shall be demonstrated by continuous emission monitoring systems (CEMS) operated in accordance with 40 CFR 60.58b and 60.59b(f). SO₂ monitors shall be located both upstream of the scrubber and downstream of the baghouse, in order to calculate percent removal efficiency. [Rule 62-204.800(8)(b), F.A.C., and 40 CFR 60.38 (40 CFR 60.58b) and 62-4.070, F.A.C.]~~

b. Compliance with standards in 40 CFR 60, other than opacity standards, shall be determined by performance tests established by 40 CFR 60.8, unless otherwise specified in the applicable standard.[40 CFR 60.11(a)]

c. Compliance with opacity standards in 40 CFR 60 shall be determined by conducting observations in accordance with Reference Method 9 in Appendix A of 40 CFR 60, any alternative method that is approved by the Administrator, or as provided in 40 CFR 60.11(e)(5). [40 CFR 60.11(b)]

d. The owner or operator of an affected facility subject to an opacity standard may submit, for compliance purposes, continuous opacity monitoring system (COMS) data results produced during any performance test required under 40 CFR 60.8 in lieu of EPA Method 9 observation data. If an owner or operator elects to submit COMS data for compliance with the opacity standard, he or she shall notify the Administrator of that decision, in writing, at least 30 days before any performance test required under 40 CFR 60.8 is conducted. Once the owner or operator of an affected facility has notified the Administrator to that effect, the COMS data results will be used to determine opacity compliance during subsequent tests required under 40 CFR 60.8 until the owner or operator notifies the Administrator, in writing, to the contrary. For the purpose of determining compliance with the opacity standard during a performance test required under 40 CFR 60.8 using COMS data, the minimum total time of COMS data collection shall be averages of all 6-minute continuous periods within the duration of the mass emission performance test. Results of the COMS opacity determinations shall be submitted along with the results of the performance test required under 60.8. The owner or operator of an affected facility using a COMS for compliance purposes is responsible for demonstrating that the COMS meets the requirements specified in 40 CFR 60.13(c), that the COMS has been properly maintained and operated, and that the resulting data have not been altered in any way. If COMS data results are submitted for compliance with the opacity standard for a period of time during which EPA Method 9 data indicates noncompliance, the EPA Method 9 data will be used to determine opacity compliance. [40 CFR 60.11(e)(5)]

2. Air Pollution Control Equipment

The permittee shall install, continuously operate, and maintain the following air pollution controls to minimize emissions. Controls listed shall be fully operational upon startup of the proposed equipment.

a. Each boiler is equipped with a particulate emission control device for the control of particulates.

b. Each boiler is equipped with an acid gas control device designed to remove at least 90% of the acid gases. Each MWC unit is required to continuously monitor and record

~~the flue gas temperature at the inlet to the PM control device in accordance with the requirements at 40 CFR 60.58(i)(7). The PM control device temperature shall be calculated in 4 hour block arithmetic averages. Each MWC unit shall be allowed to operate up to 17° C (30° F) above the unit's maximum demonstrated PM control device temperature. The maximum demonstrated PM control device temperature is the highest 4 hour arithmetic block averaged measurement of temperature at the inlet to the PM control device recorded for 4 consecutive hours during the most recent dioxin/furan performance test which complied with the limits given above. The PM control device inlet temperature and the steam (or feedwater) flow for each unit during the stack test shall be continuously monitored and recorded in accordance with 40 CFR 60, Subpart Cb. Higher temperatures are allowed for testing purposes, as specified at 40 CFR 60.53b(e). [Rule 62-204.800(8)(b), F.A.C., and 40 CFR 60.38b, 40 CFR 60.53b(e) and 60.58(i)(7)]~~

~~c. Each boiler shall be equipped with a selective non-catalytic reduction system to control nitrogen oxide emissions.~~

~~d. Mercury is controlled by source separation techniques pursuant to Rule 62-296.416, F.A.C.~~

~~e. The Permittee must submit to the Department within thirty (30) days after it becomes available, copies of technical data pertaining to the selected emissions control systems. These data should include, but not be limited to, guaranteed efficiency and emission rates, and major design parameters. The data shall be processed and approved or denied in accordance with F.S. 120.60.~~

~~3. Continuous Emission Monitoring Program~~

~~The Permittee shall install, continuously operate, and maintain the following continuous monitoring systems for each boiler exhaust stack:~~

~~a. Continuous monitors for SO₂ shall be installed after the acid gas control device for each unit. The systems shall meet the EPA monitoring performance specifications of 40 CFR 60.13 and 40 CFR 60, Appendix B, during initial compliance testing and annually thereafter. Additionally, CEMs shall meet the quality control requirements of 40 CFR 60, Appendix F.~~

~~b. CEM data recorded during periods of startup, shutdown, and malfunction shall be reported but excluded from compliance averaging periods for CO, NOx and opacity.~~

~~c. CEM data recorded during periods of startup and shutdown shall be excluded from compliance averaging periods for SO₂. CEM data recorded during periods of acid gas control device malfunctions shall be excluded from compliance averaging periods for SO₂ provided that the preceding thirty day period, which ends on the last day of the malfunction period, meets an average SO₂ emission limit equal to the SO₂ limit specified in condition XIV.A.1.a. CEM data must be available for 90% of the operating time for this exemption to apply. A malfunction as used in this certification means any sudden and unavoidable failure of air pollution control equipment or process equipment or of a process to operate in a normal or usual manner. Failures that are caused entirely or in part by poor maintenance, careless operation, or any other preventable upset condition or preventable equipment breakdown shall not be considered malfunctions.~~

~~d. An excess emissions report shall be submitted to EPA for every calendar quarter. The report shall include the following:~~

~~(1) The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factors used, and the date, and time of commencement and completion of each period of excess emissions (60.7(e)(1)).~~

~~(2) Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the furnace boiler system. The nature and cause of any malfunction (if known) and the corrective action taken or preventative measures adopted shall also be reported (60.7(e)(2)).~~

~~(3) The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks, and the nature of the system repairs or adjustments (60.7(e)(3)).~~

~~(4) When no excess emissions have occurred or the continuous emission monitoring system has not been inoperative, repaired, or adjusted, such information shall be stated in the report (60.7(e)(4)).~~

~~(5) The permittee shall maintain a file of all measurements, including continuous emission monitoring systems performance evaluations; all continuous monitoring systems of monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by these Conditions of Certification recorded in a permanent form suitable for inspection (60.7(d)).~~

~~(6) Excess emissions shall be defined as any applicable period during which the average emissions of CO, NO_x and/or SO₂, as measured by the CEM, exceed the CO, NO_x and/or SO₂ maximum emission limits (in ppm) set for each pollutant in Condition XIV.A.1.a. above.~~

~~e. Excess emissions indicated by the CEM systems shall be considered violations of the applicable opacity limit or operating emission limits (in ppm) for the purposes of this certification provided the data represents accurate emission levels and the CEMs do not exceed the calibration drift (as specified in the respective performance specification tests) on the day when initial and subsequent compliance is determined. The burden of proof to demonstrate that the data does not reflect accurate emission readings shall be the responsibility of the permittee.~~

~~f. 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 start-up or shutdown shall be prohibited.~~

~~g. The Permittee shall provide sampling ports in the air pollution control equipment outlet duct or stack and shall provide access to the sampling ports in accordance with Section 62-297, F.A.C. Drawings of testing facilities including sampling port locations as required by Section 62-297 shall be submitted to the Department for approval at least ninety (90) days prior to construction of the sampling ports and stack.~~

~~h. The Permittee shall have a sampling test of the emissions performed by a commercial testing firm within sixty (60) days after achieving the maximum rate at which the boilers will be operated but not later than 180 days after the start of operation of the boilers and annually from the date of testing thereafter. Thirty (30) days prior notice of the initial testing shall be provided to the Southeast District Office and to the Broward County Department of Planning and Environmental Protection (BCDPEP). Fifteen (15) days' prior notice shall subsequently be provided for annual sampling tests.~~

~~4. Reporting~~

~~a. A copy of the results of the compliance tests shall be submitted within forty-five days of testing to the DEP Bureau of Air Regulation, New Source Review Section, MS 5505, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, to the DEP Southeast District Office, 400 North Congress Avenue, West Palm Beach, Florida 33416-5425, and to the Broward County Department of Planning and Environmental Protection, Air Quality Division, 218 Southwest First Avenue, Ft. Lauderdale, Florida, 33301.~~

~~b. Continuous emission monitoring data shall be reported to the DEP Southeast District, Broward County offices, and EPA Region IV on a quarterly basis in accordance with Rule 62-204.800(8)(b), F.A.C., and 40 CFR 60.7. The EPA address for submitting reports is:~~

~~Chief, Air Radiation Technology Branch
U.S. EPA Region IV
61 Forsyth Street
Atlanta, Georgia 30303~~

~~d. Excess emissions monitoring for opacity, CO, NO_x, and SO₂ shall be reported to the Southeast District Office and BCDPEP on a quarterly basis in accordance with Section 62-297, F.A.C., and 40 CFR, Part 60, Subsection 60.7.~~

~~e. Notice of anticipated and actual start-up dates of each incinerator boiler shall be submitted to the DEP Southeast District Office and to the BCDPEP.~~

~~5. Unconfined Emissions~~

~~Proper dust control techniques such as water sprays or chemical wetting agents or other containment method shall be used to control visible unconfined (fugitive) emissions to the outside air to no more than 10% opacity as determined by DEP Method 9 for unconfined resource-recovery facility processes. Proper techniques shall also be used to control such emissions to prevent them from crossing the property line(s) from any other unconfined sources and to limit them to no more than three (3) minutes (cumulative) in any fifteen (15) minute period as determined by 40 CFR, Part 60, Appendix A, Method 22, with observations being made along the property line. Visible emissions shall not include uncombined water vapor or emissions from engine exhausts.~~

~~B. Fuel~~

~~The primary fuel for this facility is municipal solid waste (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 (1998).~~

~~1. Subject to the limitations contained in these Conditions of Certification, the authorized fuels for the facility also include the other solid wastes that are not MSW which are described below. However, the facility shall not burn:~~

- ~~a. those materials that are prohibited by state or federal law;~~
- ~~b. those materials that are prohibited by these Conditions of Certification;~~
- ~~c. those materials that are not authorized by these Conditions of Certification;~~
- ~~d. lead acid batteries;~~
- ~~e. hazardous waste;~~
- ~~f. nuclear waste;~~
- ~~g. radioactive waste;~~
- ~~h. sewage sludge;~~
- ~~i. explosives; and~~
- ~~j. asbestos containing materials.~~

~~2. 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:~~

- ~~a. well mixed with MSW in the refuse pit, or~~
- ~~b. alternately charged with MSW in the hopper.~~

~~3. the facility owner/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, below (7 and 80. For the purposes of these Conditions of Certification, a segregated load is defined to mean a container or truck that is almost completely or exclusively filled with a single item or homogenous composition of waste material, as determined by visual inspection.~~

~~4. To ensure that the facility's fuel does not adversely affect the facility's combustion process or emissions, the facility operator shall:~~

~~_____ a. _____ comply with good combustion operating practices in accordance with 40 CFR 60.53b;~~

~~_____ b. _____ install, operate, and maintain continuous emission monitors (CEMS) for oxygen, carbon monoxide, sulfur dioxide, oxides of nitrogen, and particulate control device inlet temperature in accordance with 40 CFR 60.58b; and~~

~~_____ c. _____ record and maintain the CEMS data in accordance with 40 CFR 60.59b.~~

~~_____ These steps shall be used to ensure and verify continuous compliance with the emissions limitations in these Conditions of Certification.~~

~~_____ 5. _____ Natural gas may be used as fuel during warm up, startup, shutdown, and malfunction periods, and at other times when necessary and consistent with good combustion practices.~~

~~_____ 6. _____ Subject to the conditions and limitations contained in these Conditions of Certification, the following other solid waste may be used as fuel at the facility:~~

~~_____ a. _____ Confidential, proprietary or special documents (including but not limited to business records, lottery tickets, coupons, credit cards, magnetic tape and microfilm);~~

~~_____ b. _____ 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;~~

~~_____ c. _____ Wood pallets, clean wood, and land clearing debris;~~

~~_____ d. _____ Packaging materials and containers;~~

~~_____ e. _____ Clothing, natural and synthetic fibers, fabric remnants, and similar debris, including but not limited to aprons, and gloves; and~~

~~_____ f. _____ Rugs, carpets, and floor coverings, but not asbestos-containing materials or polyethylene or polyurethane vinyl floor coverings.~~

~~_____ 7. _____ Subject to the conditions and limitations contained in these Conditions of Certification, 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 by using a rolling 30 day average in accordance with Condition XIV.B.9. below.~~

~~_____ 8. _____ Subject to the conditions and limitations contained in these Conditions of Certification, 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 by using a rolling 30-day average in accordance with Condition No. XIV.B.9. below.~~

~~_____ a. _____ Construction and demolition debris.~~

~~_____ b. _____ Oil spill debris from aquatic, coastal, estuarine or river environments. Such items or materials include but are not limited to rags, wipes, and absorbents.~~

~~_____ c. _____ 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.~~

~~_____ d. _____ 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.~~

~~_____ e. _____ Waste materials that:~~

~~_____ i. _____ are generated in the manufacture of items in categories (c) or (d), above and are functionally or commercially useless (expired, rejected or spent); or~~

~~_____ ii. _____ 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.~~

~~_____ f. _____ Waste materials that contain oil from:~~

~~_____ i. _____ routine cleanup of industrial or commercial establishments and machinery; or~~

~~_____ ii. _____ spills of virgin or used petroleum products. Such items or materials include but are not limited to rags, wipes, and absorbents.~~

~~_____ g. _____ Used oil and used oil filters. Used oil containing a PCB concentration equal or greater than 50 ppm shall not be burned, pursuant to the limitations of 40 CFR 761.20(e).~~

~~_____ h. _____ 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 prior approval of the Department.~~

~~_____ 9. _____ Segregated Solid Waste Record Keeping:~~

~~_____ The following records shall be made and kept to demonstrate compliance with the segregated non-MSW percentage limitations of Condition XIV.B.:~~

~~_____ a. _____ Each segregated load of non-MSW materials that is subject to the percentage weight limitations of conditions XIV.B.7. and XIV.B.8. which is received for processing shall~~

~~be documented as to waste description and weight. The weight of all waste materials received for processing shall be measured using the facility truck scale and recorded.~~

~~b. 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 29 days. The resultant 30 day total weight of tires shall be divided by the total weight of all waste materials received in the same 30 day period 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. 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 29 days. The resultant 30 day total weight of segregated non-MSW materials shall be divided by the total weight of all waste materials received in the same 30 day period 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.~~

~~C. Metal Recovery Facility~~

~~A metal recovery area may be constructed and shall be enclosed in a building adjacent to the existing ash loadout area. All bottom ash is currently quenched with water after leaving each boiler. All bottom ash shall continue to be quenched after leaving each boiler so that the resulting bottom ash will contain approximately 20 to 30 percent moisture and will not generate fugitive dust. Ash being processed at this facility shall continue to meet the requirements of XIV.A.1.a.(1)(d), Ash Handling Facilities.~~

~~D. Electric Utility Steam Generating Unit Actual Emissions~~

~~The permittee shall provide the Department within the period not longer than 10 years following the change, information demonstrating that the physical or operational change did not result in a representative actual annual emissions increase in accordance with Rule 62-210.200(12)(d), F.A.C., and Rule 62-212.400, F.A.C. [40 CFR 52.21(b)(33), Rule 62-4.070(3), Rule 62-212.400, and Rule 62-210.200, F.A.C.]~~

~~E. Determination of Process Variables~~

~~Any other operating parameters (including but not limited to control equipment operating parameters) established during compliance testing and/or inspection that will confirm the proper operation of each emission unit shall be included in the operating permit. [Rule 62-297.310(5), F.A.C., and 62-4.070(3), F.A.C.]~~

XV G. WATER

F.A. Wastewater Disposal

G. B. Water Discharges

L.C. Potable Water System

XVI H. SOLID/HAZARDOUS WASTE

- 1.A.
- 2.B.
- 3.C.
- 4.D.
- 5.E.
- 6.F.
- 7.G.
- 8.H.
- 9.I.
- 10.J.
- 11.K.
- 12.L.
- 13.M.
- 14.N.
- 15.O.
- 16.P.

I. ~~Operational Safeguards~~

~~The overall design and layout of the facilities shall be such as to mitigate potential adverse effects to humans and the environment. Security control measures shall be utilized to prevent exposure of the public to hazardous conditions. The Federal Occupational Safety and Health Standards will be complied with during construction and operation. The safety standards specified under Section 440.56, Florida Statutes, by the Industrial Safety Section of the Florida Department of Commerce will be complied with during operation.~~

J. ~~Transmission Lines~~

~~The directly associated transmission lines from the Resource Recovery Facility electric generators to the Florida Power and Light Company substation shall be kept cleared without the use of herbicides.~~

K. ~~Noise~~

~~Operational noises shall not exceed local noise ordinance limitations nor those noise standards imposed by zoning.~~

L. ~~Potable Water System~~

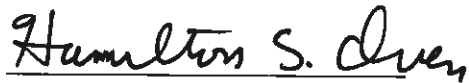
~~The potable water system (wells, pipes, pumps and treatment facilities) shall be designed, constructed and operated in conformance with the applicable provisions of Chapters 62-521, 62-532 and 62-550, F.A.C. Plans and specifications for these facilities shall be provided to the Southeast~~

Wheelbrator South Broward
Order Modifying Conditions of Certification
DEP Case Number PA 85-91F
05/20/05

~~District Office and the Broward County Department of Planning and Environmental Protection for review and approval ninety (90) days prior to construction.~~

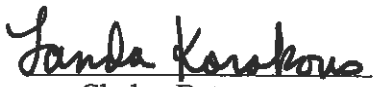
Any party to the this Order has a right to seek judicial review of it pursuant to Section 120.68, Florida Statutes by filing a Notice of Appeal, pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department of Environmental Protection in the Office of General Counsel, 3900 Commonwealth Boulevard, M.S. 35, Tallahassee, Florida 32399-3000, and by filing a copy of the Notice of Appeal, accompanied by the applicable filing fees, with the appropriate District Court of Appeal. The Notice of Appeal must be filed within thirty days from the date this Order is filed with the Clerk of the Department of Environmental Protection.

Executed in Tallahassee, Florida.



Hamilton S. Oven, P.E.
Administrator, Siting Coordination Office

FILING AND ACKNOWLEDGMENT
FILED, on this date, pursuant to §120.52
Florida Statutes, with the designated
Department Clerk, receipt of which is
hereby acknowledged.

 5/20/05
Clerk Date

Wheelbrator South Broward
Order Modifying Conditions of Certification
DEP Case Number PA 85-91F
05/20/05

CC by certified mail:

James Antista, Esquire
Fish and Wildlife Conservation Commission
6230 South Meridian Street
Tallahassee, FL 32399-1600

Craig Varn, Esquire
Department of Community Affairs
2555 Shumard Oak Boulevard
Tallahassee, FL 32399-2100

Mary Ann Helton, Esquire
Florida Public Service Commission
Gerald Gunter Building
2450 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Sheauching Yu, Esquire
Department of Transportation
Haydon Burns Building
605 Suwannee Street
Mail Station 58
Tallahassee, FL 32399-0450

Scott Burns
Director, Water Use Regulation Division
South Florida Water Management District
3301 Gun Club Rd.
West Palm Beach, FL 33406

Michael Cooke
Division of Air Resource Management
2600 Blair Stone Road MS 5500
Tallahassee, Florida 32399-2400

Noel Pfeffer, Esq
Deputy County Attorney
Broward County
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Frank Kreidler, Esq.
South Broward Citizens for a Better
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And by hand delivery to:

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Department of Environmental Protection
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J.R. Miertschin, Esq.
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City, State, Zip		4400 South State Road 7 Ft. Lauderdale, Florida 33314	
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