

BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

AUG 09 2001

SITING COORDINATION

In Re: Wheelabrator North Broward, Inc.)
North Broward County Resource Recovery)
Facility)
Modification of Conditions of Certification)
PA 86-22)
Broward County, Florida)

DEP CASE NO. PA 86-22F
OGC CASE NO. 01-0602

**FINAL ORDER MODIFYING
CONDITIONS OF CERTIFICATION**

On March 9, 1987, the Governor and Cabinet, sitting as the Siting Board, issued a final order approving certification for the North Broward County Resource Recovery Facility. That certification order approved the construction and operation of a 55.5 MW, 2,200 tons per day, municipal waste fired power plant and associated facilities located in Broward County, Florida.

On August 1, 2000, the Department issued a Final Order Modifying Conditions of Certification for this facility (DEP Case No. PA86-22E). That modification was issued, after notice, to allow the facility to make improvements to the air pollution control system necessary to comply with the Federal requirements of 40 CFR 60, Subpart Cb., "Emission Guideline and Compliance Schedules for Municipal Waste Combustors That Are Constructed on or Before December 19, 1995"; to change monitoring requirements; to allow construction of a metals recovery facility; to reflect current names and current rule citations; to allow for conforming Conditions of Certification to future amendments to federally delegated permits; and to bring the Conditions of Certification into agreement with the proposed revisions to the Prevention of Significant Deterioration (PSD) and Title V air permits.

On April 17, 2000, Wheelabrator submitted comments on the proposed Final Order Modifying Conditions of Certification (PA 86-22E) requesting additional changes, and indicating clerical errors. Those comments were not addressed in the Final Order described above, issued on August 1, 2000. The Department proposes to modify the certification to incorporate Wheelabrator's comments.

On April 11, 2001, all parties to the original proceeding were furnished with a copy of the Notice of Intent to Issue Proposed Modification of Power Plant Certification and a copy of

this proposed final order, and copies of the proposed modifications were made available for public review. On April 20, 2001, a Notice of Intent to Issue Proposed Modification of Power Plant Certification was published in the *Florida Administrative Weekly*. The notices specified that all parties to the original certification proceeding have 45 days from the issuance of the notice by mail to such party's last address of record in which to object to the requested modification. Failure of any of the parties to file a response constitutes a waiver of objection to the requested modification. The notices further specified that any person who is not already a party to the certification proceeding and whose substantial interests are affected by the requested modification has 30 days from the date of publication of the public notice to object in writing. If no objections are received, then a Final Order approving the modifications shall be issued by the Department. If objections are raised and agreement cannot be subsequently reached, then pursuant to §403.516(1)(c), F.S., the applicant or the Department may file a petition for modification seeking approval for those portions of the request for modification to which written objections were timely filed. No written objections to the proposed modifications have been received by the Department. Accordingly, in the absence of any timely objection,

IT IS ORDERED:

The proposed changes to the North Broward County Resource Recovery Facility as described above are **APPROVED**. Pursuant to Section 403.516(1)(b), F.S., the Conditions of Certification for the North Broward County Resource Recovery Facility are modified as follows:

I. and II. No change

III. FACILITIES OPERATION

The Permittee 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 to achieve compliance with the terms and conditions of this certification. 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 the remaining unit 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 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 to the consent order. Administrative action will not be initiated in the event of such a malfunction for twenty-five (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 ~~two (2)~~ three (3) hours without Southeast District Office approval. Operational stoppages exceeding ~~two hours for air pollution control systems or four (4) hours for other systems or operational malfunctions as noted below exceeding two hours for air pollution control systems or four hours for other systems~~ and as defined in the operational contingency plans as specified in Condition XX., 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.

IV. through XIII. No change

XIV. OPERATION

A. Air

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-112(B), as amended. In addition to the foregoing, the Permittee shall comply with the following specific Conditions of Certification:

1. Emissions Limitations

a. The following emissions standards apply to the following emissions units after improvements to comply with 40 CFR Subpart Cb are completed and the initial performance tests are completed. [Rule 62-204.800(8)(b), 40 CFR 60 Subpart Cb]

EMISSIONS UNIT NO.	EMISSIONS UNITS DESCRIPTION
001	302.5 MMBtu/hr (maximum) Municipal Waste Combustor & Auxiliary Burners - Unit No.1
002	302.5 MMBtu/hr (maximum) Municipal Waste Combustor & Auxiliary Burners - Unit No.2
003	302.5 MMBtu/hr (maximum) Municipal Waste Combustor & Auxiliary Burners - Unit No.3

{Permitting Note: Each of the three municipal waste combustor (MWCs) has a *nominal* design rate capacity of 747 tons MSW per day and 280 MMBtu per hour (with MSW having a heating value of 4,500 Btu per pound). A maximum of 807 tons per day and 302 MMBtu per hour heat input (108% rated capacity) is allowed. Short-term capacity is limited by limiting steam production (maximum of 186,000 lb/hr), which effectively limits heat input.}

EQUIVALENT EMISSIONS				
POLLUTANT	EMISSIONS STANDARDS	LB/MMBtu	LB/HR	TON/YR
PM ⁽³⁾ Particulate Matter	27 mg/dscm or 0.012 gr/dscf corrected to 7% O ₂	0.024	7.35	32.24
VE Visible Emissions	10 % (6 min. block avg.)			
Cd Cadmium	0.040 mg/dscm corrected to 7% O ₂	3.6 E-05	0.011	0.048
Be ⁽⁴⁾ Beryllium	0.001 mg/dscm corrected to 7 % O ₂	9.3 E-07	0.0003	0.0012
Pb Lead	0.44 mg/dscm corrected to 7% O ₂	4.4 E-04	0.133	0.58
Hg Mercury	70 µg/dscm or 85% reduction by weight or volume corrected to 7% O ₂ (whichever is less stringent)	6.3 E-05	0.019	0.08
SO ₂ Sulfur Dioxide	29 ppmdv or 75% reduction by weight or volume corrected to 7% O ₂ (whichever is less stringent)	0.11	32.8	143.5
HCl Hydrochloric Acid	29 ppmdv or 95% reduction corrected to 7% O ₂ (whichever is less stringent)	0.04	11.7	51.3
Dioxins/Furans	30 ng/dscm corrected to 7% O ₂	2.7 E-08	8.2E-06	3.6 E-05
CO Carbon Monoxide	100 ppmdv corrected to 7% O ₂	0.105	31.8	139.1

NO _x ⁽²⁾	205 ppmdv corrected to 7% O ₂	0.35	106.5	466.4
Nitrogen Oxides				
F Fluorides	Not to exceed 0.0040 lb/MMBtu (BACT limit from original permit)	0.0040	1.21	5.29

(1) These maximum allowable emission standards are applicable to each MWC combustor unit and shall be used in demonstrating compliance with the compliance procedures specified in conditions d.3. [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 ~~conditions~~ emissions are listed for 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 302.5 MMBtu/hr and 186,000 lb steam/hr [108 % rated capacity] per unit and 8760 hours of operation. Short-term capacity is limited by limiting steam production (186,000 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: Part 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) through (c) No change

(d) Ash Handling Facilities:

The potential for dust generation by ash handling activities will be mitigated by quenching or 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 flyash conditioning system, and ash from the combustor/boiler and fabric filter hoppers shall be discharged into the flyash

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 ~~a.(2)~~ a.(1)(b). [Rule 62-204.800(8)(b), F.A.C., 40 CFR 60.36b, and 60.55b, and 62-4.070(3) F.A.C.]

(2) through (3) No change

b. through f. No change

2. Air Pollution Control Equipment

a. ~~Each boiler is equipped with a particulate emission control device for the control of particulates. shall be designed and constructed to achieve a maximum emission rate of 0.012 grains per dscf corrected to 7% O₂. All other particulate control devices shall be designed to meet the provisions of section 62-296, F.A.C.~~

b. through e. No change

3. Continuous Emission Monitoring Program

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

a. through c. No change

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

(1) through (5) No change

(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 CEMs, exceeds the CO, NO_x and/or SO₂ maximum emission limit (in ppm) set for each pollutant in Condition XIV.A.1. above.

e. through h. No change

4. and 5. No change

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)F.A.C., Florida Statutes (1998).

1. through 5. No change

6. Subject to the conditions and limitations contained in this permit, the following other solid waste may be used as fuel at the facility:

a. through e. No change

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

~~7.6.~~ No change to text.

~~8.7.~~ No change to text.

9. No change

C. through E. No change

F. Solid/Hazardous Waste

1. through 6. No change

7. ~~The~~ If a temporary hazardous waste storage and transfer facility is developed at the Facility for the isolated temporary handling of suspected hazardous wastes, the storage and transfer facility shall be designed, constructed and operated in conformance with Rule 62-730, F.A.C. The design of the temporary storage and transfer facility's operational procedures, personal training program, contingency plans and closure plans shall be submitted to the department and SFWMD for review and approval.

8. through 12. No change

H. No change

~~I. J.~~ No change to text.

~~J. K.~~ No change to text.

XV. through XXIII. No change.

Any party to this Final Order has the right to seek judicial review of the Final Order 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, 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 fee, with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date that this Final Order is filed with the Department of Environmental Protection.

DONE AND ENTERED this 5th day of August, 2001, in Tallahassee, Florida.

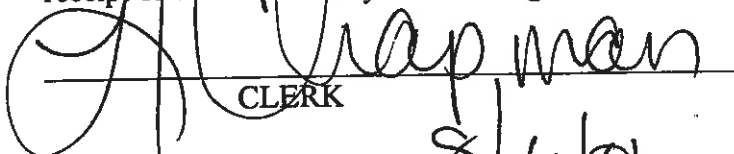
STATE OF FLORIDA, DEPARTMENT
OF ENVIRONMENTAL PROTECTION


ALLAN BEDWELL
DEPUTY SECRETARY

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FILING AND ACKNOWLEDGMENT:

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


CLERK
8/6/01
DATE

CERTIFICATE OF SERVICE

I hereby certify this 7 day of August 2001, that a true and correct copy of the foregoing has been sent by mail to the following listed persons:

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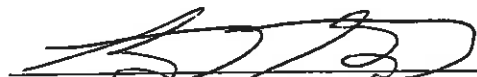
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**STATE OF FLORIDA DEPARTMENT
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