

**STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

In Re: Wheelabrator South Broward, Inc.)	
South Broward County Resource Recovery)	
Facility)	DEP CASE NO PA 85-21E
Modification of Conditions of Certification)	OGC NO. 02-0281
Broward County, Florida.)	
_____)	

**FINAL ORDER
MODIFYING CONDITIONS OF CERTIFICATION**

On June 9, 1986, the Governor and Cabinet, sitting as the Siting Board, issued a final order approving certification for the South Broward County Resource Recovery Facility. That certification order approved the construction and operation of a 68.5 MW, 2,250 tons per day municipal waste fired power plant and associated facilities located in Broward County, Florida. The certification was subsequently modified on June 3, 1986; April 17, 1991; August 1, 2000; and August 6, 2001. Because of discrepancies between the Conditions of Certification and permit PSD-FL-105(B), the Department proposes modifications to conform the Conditions of Certification for the above referenced facility to the PSD permit.

On February 27, 2002, copies of the proposed modifications were made available for public review on and 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. On March 8, 2002, 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 an objection 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 interest is 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 modification 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 Conditions of Certification for the South Broward County Resource Recovery Facility are **APPROVED**. Pursuant to section 403.516(1)(b), F.S., the Conditions of Certification for the South Broward County Resource Recovery Facility are **MODIFIED** as follows:

I - 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, 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.~~

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) shall have a nominal design rate capacity of 747 tons MSW per day (a maximum of 807 tons per day), 280 MMBtu per hour with MSW having a heating value of 4,500 Btu per pound. 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 ¹	LB/MMBtu	LB/HR	TON/YR
PM³ 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
Be⁴ 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)	6.3E-05	0.02	0.09
SO₂ Sulfur Dioxide	29 ppmdv 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 ppmdv 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	2.7 E-08	8.7E-06	3.8E-05
CO Carbon Monoxide	100 ppmdv corrected to 7% O ₂	0.015	33.9	148.5
NO_x Nitrogen Oxides	205 ppmdv corrected to 7% O ₂	0.352	114	499
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 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 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 NESHA, 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: 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

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-105(B), as amended. In addition to the foregoing, the Permittee shall comply with the following specific Conditions of Certification:

1. Emission Limitations upon Operation of Units 1-3

a. 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].

<u>EMISSIONS UNIT NO.</u>	<u>EMISSIONS UNIT DESCRIPTION</u>
<u>001</u>	<u>323.6 MMBtu/hr (maximum) Municipal Waste Combuster & Auxiliary Burners - Unit No. 1</u>
<u>002</u>	<u>323.6 MMBtu/hr (maximum) Municipal Waste Combuster & Auxiliary Burners - Unit No. 2</u>
<u>003</u>	<u>323.6 MMBtu/hr (maximum) Municipal Waste Combuster & Auxiliary Burners - Unit No. 3</u>

{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.}

<u>EQUIVALENT EMISSIONS²</u>				
<u>POLLUTANT</u>	<u>EMISSIONS STANDARDS¹</u>	<u>LBS/MMBtu</u>	<u>LBS/HR</u>	<u>TONS/YR</u>
<u>PM³</u> <u>Particulate Matter</u>	<u>27 mg/dscm or 0.012 gr/dscf corrected to 7% O₂</u>	<u>0.0243</u>	<u>7.85</u>	<u>34.4</u>
<u>VE</u> <u>Visible Emissions</u>	<u>10% (6 minute block average)</u>			
<u>Cd</u> <u>Cadmium</u>	<u>0.040 mg/dscm corrected to 7% O₂</u>	<u>3.7E-05</u>	<u>0.012</u>	<u>0.051</u>
<u>Be⁴</u> <u>Beryllium</u>	<u>0.001 mg/dscm corrected to 7% O₂</u>	<u>9.3E-07</u>	<u>0.0003</u>	<u>0.0013</u>
<u>Pb</u>	<u>0.44 mg/dscm corrected to 7% O₂</u>	<u>4.4E-04</u>	<u>0.142</u>	<u>0.62</u>

EQUIVALENT EMISSIONS²				
POLLUTANT	EMISSIONS STANDARDS¹	LBS/MMBtu	LBS/HR	TONS/YR
<u>Lead</u>				
<u>Hg</u> <u>Mercury</u>	<u>70 µg/dscm or 85% reduction by weight or volume corrected to 7% O₂ (whichever is less stringent)</u>	<u>6.2E-05</u>	<u>0.02</u>	<u>0.09</u>
<u>SO₂</u> <u>Sulfur Dioxide</u>	<u>29 ppmdv or 75% reduction by weight or volume corrected to 7% O₂ (whichever is less stringent)</u>	<u>0.11</u>	<u>35.1</u>	<u>153.7</u>
<u>HCl</u> <u>Hydrochloric Acid</u>	<u>29 ppmdv or 95% reduction corrected to 7% O₂ (whichever is less stringent)</u>	<u>0.04</u>	<u>12.6</u>	<u>55</u>
<u>Dioxins/Furans</u>	<u>30 ng/dscm corrected to 7% O₂</u>	<u>2.7E-08</u>	<u>8.7E-06</u>	<u>3.8E-05</u>
<u>NOx</u> <u>Nitrogen Oxides</u>	<u>205 ppmdv corrected to 7% O₂</u>	<u>0.352</u>	<u>114</u>	<u>499</u>
<u>CO</u> <u>Carbon Monoxide</u>	<u>100 ppmdv corrected to 7% O₂</u>	<u>0.105</u>	<u>33.9</u>	<u>148.5</u>
<u>F</u> <u>Fluorides</u>	<u>Not to exceed 0.0040 lb/MMBtu (BACT limit from original permit)</u>	<u>0.0040</u>	<u>1.29</u>	<u>5.66</u>

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)

NOx: 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

b - d. No change

2 - 5. No change

B - H. No change

XV - XX. No change

Any party adversely affected by this Final Order has a right to seek judicial review of this 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 in the Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this Final Order is filed with the Clerk of the Department of Environmental Protection.

DONE AND ENTERED this 13th day of JUNE 2002, in Tallahassee, Florida.

**STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION**

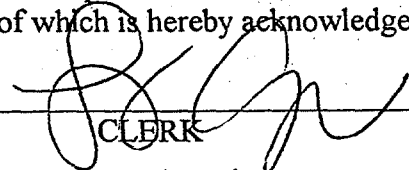


**ALLAN F. BEDWELL
DEPUTY SECRETARY**

Douglas Building
3900 Commonwealth Boulevard
Tallahassee, Florida 32399-3000
Telephone: (850) 488-7131

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
6/13/02

DATE

Certificate of Service

I hereby certify that a copy of the above Final Order Modifying Conditions of Certification was sent to the following parties by United States Mail this 13 day of June, 2002.

Elizabeth D. Ross, Esquire
South Florida Water Management District
Post Office Box 24680
West Palm Beach, FL 33416-4680

Colin Roopnarine, Esquire
Department of Community Affairs
2555 Shumard Oak Boulevard
Tallahassee, FL 32399-2100

Frank Kreidler, Esquire
South Broward Citizens for a
Better Environment
1124 South Federal Highway
Lake Worth, FL 33460-5244

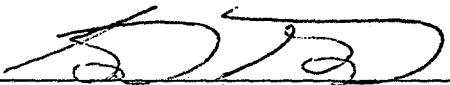
Robert V. Elias, Esquire
Division of Legal Services
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

J.R. Miertschin, Esquire
South Broward Citizens for a
Better Environment
4000 Hollywood Boulevard, Suite 665-S
Hollywood, FL 33021-6751

Charles Lee, Senior Vice President
Florida Audubon Society
1331 Palmetto Avenue
Suite 110
Winter Park, FL 32789

William Roberts
Wheelabrator North Broward, Inc.
2600 N.W. 48th Street
Pompano Beach, FL 33073

**STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION**


SCOTT A. GOORLAND, ESQ.
Senior Assistant General Counsel
Florida Bar No. 0066834

Douglas Office Building, MS 35
3900 Commonwealth Boulevard
Tallahassee, Florida 32399-3000
Telephone (850) 488-9314 / FAX 921-3000