



Department of Environmental Protection

Lawton Chiles
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Virginia B. Wetherell
Secretary

February 12, 1998

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Thomas D. Kirk
Plant Manager
Wheelabrator North Broward, Inc.
2600 N. W. 48th Street
Pompano Beach, Florida 33073

Re: Draft Permit Amendment No. PSD-FL-112(A)

Dear Mr. Kirk:

Enclosed is one copy of the Draft Amendment to the Permit for the Prevention of Significant Deterioration of Air Quality (PSD Permit) for the Wheelabrator North Broward, Inc. facility located at 2600 N. W. 48th Street, Pompano Beach, Broward County, Florida 33073. The Department's Intent to Issue Air Construction Permit Amendment, the DRAFT Permit Amendment, Technical Evaluation and Preliminary Determination, and the "PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT AMENDMENT" are also included.

The "PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT AMENDMENT" must be published within 30 (thirty) days of receipt of this letter. Proof of publication, i.e., newspaper affidavit, must be provided to the Department's Bureau of Air Regulation office within 7 (seven) days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit.

Please submit any written comments you wish to have considered concerning the Department's proposed action to A. A. Linero, P.E., Administrator, New Source Review Section at the above letterhead address. If you have any other questions, please contact Mr. Edward J. Svec or Mr. Linero at 850/488-1344.

Sincerely,

C. H. Fancy, P.E., Chief,
Bureau of Air Regulation

CHF/ejs

Enclosures

In the Matter of an
Application for Permit Amendment by:

Wheelabrator North Broward, Inc.
2600 N. W. 48th Street
Pompano Beach, Florida 33073

DRAFT Permit Amendment No. PSD-FL-112(A)
Wheelabrator North Broward, Inc.
Broward

INTENT TO ISSUE AIR CONSTRUCTION PERMIT AMENDMENT

The Department of Environmental Protection (Department) gives notice of its intent to issue an air construction permit amendment (copy of DRAFT Permit amendment attached) for the proposed project, as detailed in the application specified above, for the reasons stated below.

The applicant, Wheelabrator North Broward, Inc., applied on December 4, 1997, to the Department for an air construction permit amendment for its Wheelabrator North Broward, Inc. facility located at 2600 N. W. 48th Street, Pompano Beach, Broward County. Wheelabrator North Broward, Inc. requested a revision to their existing PSD permit for clarification of the permitted fuels allowed to be combusted at the North Broward Resource Recovery Facility. The permit currently allows for the combustion of "refuse such as garbage and trash (as defined in Chapter 17-7, FAC) but not grease, scum, grit screenings or sewage sludge." Specifically, the request seeks approval to also combust pharmaceutical wastes, used oil filters and tires in addition to municipal solid waste. In addition to this request, the Department will replace the term "refuse such as garbage or trash (as defined in Chapter 17-7, FAC)" with the terms municipal solid waste or municipal-type waste or MSW as they are defined in both 40 CFR 60.51a and 51b.

The Department has permitting jurisdiction under the provisions of Chapter 403, Florida Statutes (F.S.) and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, and 62-212. The above actions are not exempt from permitting procedures. The Department has determined that an air construction permit amendment is required to include the fuels requested by the facility.

The Department intends to issue this air construction permit amendment based on the belief that reasonable assurances have been provided to indicate that operation of these emission units will not adversely impact air quality, and the emission units will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C.

Pursuant to Section 403.815, F.S., and Rule 62-103.150, F.A.C., you (the applicant) are required to publish at your own expense the enclosed "PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT AMENDMENT". The notice shall be published one time only within 30 (thirty) days in the legal advertisement section of a newspaper of general circulation in the area affected. For the purpose of these rules, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. Where there is more than one newspaper of general circulation in the county, the newspaper used must be one with significant circulation in the area that may be affected by the permit. If you are uncertain that a newspaper meets these requirements, please contact the Department at the address or telephone number listed below. The applicant shall provide proof of publication to the Department's Bureau of Air Regulation, at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, Florida 32399-2400 (Telephone: 850/488-1344; Fax 850/ 922-6979) within 7 (seven) days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit amendment pursuant to Rule 62-103.150 (6), F.A.C.

The Department will issue the FINAL Permit Amendment, in accordance with the conditions of the enclosed DRAFT Permit Amendment unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions.

The Department will accept written comments concerning the proposed DRAFT Permit Amendment issuance action for a period of 30 (thirty) days from the date of publication of "PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT AMENDMENT." Any written comments should be provided to the

Department's Bureau of Air Regulation, 2600 Blair Stone Road, Mail Station #5505, Tallahassee, Florida 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in this DRAFT Permit Amendment, the Department shall issue a Revised DRAFT Permit Amendment and require, if applicable, another Public Notice.

The Department will issue the permit amendment with the attached conditions unless a timely petition for an administrative hearing is filed pursuant to Sections 120.569 and 120.57 F.S. The procedures for petitioning for a hearing are set forth below. Mediation is not available for this action

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57 F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000, telephone: 850/488-9730, fax: 850/487-4938. Petitions must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. A petitioner must mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57 F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-5.207 of the Florida Administrative Code.

A petition must contain the following information: (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the Department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by petitioner, if any; (e) A statement of the facts that the petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement identifying the rules or statutes that the petitioner contends require reversal or modification of the Department's action or proposed action; and (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take with respect to the action or proposed action addressed in this notice of intent.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice of intent. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

In addition to the above, a person subject to regulation has a right to apply for a variance from or waiver of the requirements of particular rules, on certain conditions, under Section 120.542 F.S. The relief provided by this state statute applies only to state rules, not statutes, and not to any federal regulatory requirements. Applying for a variance or waiver does not substitute or extend the time for filing a petition for an administrative hearing or exercising any other right that a person may have in relation to the action proposed in this notice of intent.

The application for a variance or waiver is made by filing a petition with the Office of General Counsel of the Department, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. The petition must specify the following information: (a) The name, address, and telephone number of the petitioner; (b) The name, address, and telephone number of the attorney or qualified representative of the petitioner, if any; (c) Each rule or portion of a rule from which a variance or waiver is requested; (d) The citation to the statute underlying (implemented by) the rule identified in (c) above; (e) The type of action requested; (f) The specific facts that would justify a variance or waiver for the petitioner; (g) The reason why the variance or waiver would serve the purposes of the underlying statute (implemented by the rule); and (h) A statement whether the variance or waiver is permanent or temporary and, if temporary, a statement of the dates showing the duration of the variance or waiver requested.

The Department will grant a variance or waiver when the petition demonstrates both that the application of the rule would create a substantial hardship or violate principles of fairness, as each of those terms is defined in Section 120.542(2) F.S., and that the purpose of the underlying statute will be or has been achieved by other means by the petitioner.

Persons subject to regulation pursuant to any federally delegated or approved air program should be aware that Florida is specifically not authorized to issue variances or waivers from any requirements of any such federally delegated or approved program. The requirements of the program remain fully enforceable by the Administrator of the EPA and by any person under the Clean Air Act unless and until the Administrator separately approves any variance or waiver in accordance with the procedures of the federal program.

Executed in Tallahassee, Florida.



C. H. Fancy, P.E., Chief
Bureau of Air Regulation

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this INTENT TO ISSUE AIR CONSTRUCTION PERMIT AMENDMENT (including the PUBLIC NOTICE, and DRAFT permit amendment) was sent by certified mail (*) and copies were mailed by U.S. Mail before the close of business on 2-16-98 to the person(s) listed:

Mr. Thomas D. Kirk, Plant Manager, Wheelabrator South Broward, Inc. *
Mr. Stephen Smallwood, PE, ERM South
Mr. Brian Beals, EPA
Mr. Isidore Goldman, PE, FDEP SED
Ms. Daniela Banu, Director, BCDNRP

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to §120.52(7), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.


(Clerk)

2-16-98
(Date)

**NOTICE TO BE PUBLISHED
IN THE NEWSPAPER**

PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT AMENDMENT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

DRAFT Permit Amendment No. PSD-FL-112(A)
Wheelabrator North Broward, Inc.
Broward County

The Department of Environmental Protection (Department) gives notice of its intent to issue an air construction permit amendment to Wheelabrator North Broward, Inc., for Wheelabrator North Broward, Inc. located at 2600 N. W. 48th Street, Pompano Beach, Broward, County. A Best Available Control Technology (BACT) determination was not required pursuant to Rule 62-212.400, F.A.C. and 40 CFR 52.21, Prevention of Significant Deterioration (PSD). The amendment will not result in an increase in any emissions from the facility, and will not cause a violation of any state or federal ambient air quality standards or increments. The applicant's name and address are:

Wheelabrator North Broward, Inc.
2600 N. W. 48th Street
Pompano Beach, Florida 33073

On December 4, 1997, Wheelabrator North Broward, Inc. requested a revision to their existing PSD permit for clarification of the permitted fuels allowed to be combusted at the North Broward Resource Recovery Facility. The permit currently allows for the combustion of "refuse such as garbage and trash (as defined in Chapter 17-7, FAC) but not grease, scum, grit screenings or sewage sludge." Specifically, the request seeks approval to also combust pharmaceutical wastes, used oil filters and tires in addition to municipal solid waste. In addition to this request, the Department will replace the term "refuse such as garbage or trash (as defined in Chapter 17-7, FAC)" with the terms municipal solid waste or municipal-type waste or MSW as they are defined in both 40 CFR 60.51a and 51b.

The proposed fuels allowed to be combusted at the emissions units are:

A. Municipal Solid Waste or Municipal-Type Waste or MSW Municipal solid waste or municipal-type waste or MSW means household, commercial/retail, and/or institutional waste. Household waste includes material discarded by single and multiple residential dwellings, hotels, motels, and other similar permanent or temporary housing establishments or facilities. Commercial/retail waste includes material discarded by stores, offices, restaurants, warehouses, nonmanufacturing activities at industrial facilities, and other similar establishments or facilities. Institutional waste includes material discarded by schools, nonmedical waste discarded by hospitals, material discarded by nonmanufacturing activities at prisons and government facilities, and material discarded by other similar establishments or facilities. Household, commercial/retail, and institutional waste does not include used oil; sewage sludge; wood pallets; construction, renovation and demolition wastes (which includes but is not limited to railroad ties and telephone poles); clean wood; industrial process or manufacturing wastes; medical waste; or motor vehicles (including motor vehicle parts or vehicle fluff). Household, commercial/retail, and institutional wastes includes yard waste and refuse-derived fuel.

**NOTICE TO BE PUBLISHED
IN THE NEWSPAPER**

B. Used Oil Filters

C. Tires Tires (whole or shredded) may be processed/fed to this emissions unit(s) up to three (3) percent by weight of the permitted capacity of the emissions unit(s).

D. Pharmaceutical Wastes Pharmaceutical wastes include the following:

- (1) Expired pharmaceuticals (Rx);
- (2) Over the counter medicines, treatments, and supplements (OTC);
- (3) Health and beauty products (HB);
- (4) Off-specification, recalled or out of date Rx, OTC and HB;
- (5) Small amounts of bulk containers of Rx, OTC and HB;
- (6) Packaging material including glass, plastic, and paper for Rx, OTC and HB; and
- (7) Controlled substances confiscated by law enforcement agencies.

The Department will issue the FINAL Permit Amendment, in accordance with the conditions of the DRAFT Permit Amendment unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions.

The Department will accept written comments concerning the proposed DRAFT Permit Amendment issuance action for a period of 30 (thirty) days from the date of publication of this Notice. Any written comments should be provided to the Department's Bureau of Air Regulation, 2600 Blair Stone Road, Mail Station #5505, Tallahassee, Florida 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in this DRAFT Permit Amendment, the Department shall issue a Revised DRAFT Permit Amendment and require, if applicable, another Public Notice.

The Department will issue FINAL Permit Amendment with the conditions of the DRAFT Permit Amendment unless a timely petition for an administrative hearing is filed pursuant to Sections 120.569 and 120.57 F.S. The procedures for petitioning for a hearing are set forth below. Mediation is not available for this action.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57 F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000, telephone: 850/488-9370, fax: 850/487-4938. Petitions must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. A petitioner must mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57 F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-5.207 of the Florida Administrative Code.

A petition must contain the following information: (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the Department's

NOTICE TO BE PUBLISHED IN THE NEWSPAPER

action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by petitioner, if any; (e) A statement of the facts that the petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement identifying the rules or statutes that the petitioner contends require reversal or modification of the Department's action or proposed action; and (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take with respect to the Department's action or proposed action addressed in this notice of intent.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice of intent. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

A complete project file is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Department of Environmental Protection
Bureau of Air Regulation
111 S. Magnolia Drive, Suite 4
Tallahassee, Florida, 32301
Telephone: 850/488-1344
Fax: 850/922-6979

Department of Environmental Protection
Southeast District Office
400 North Congress Avenue
West Palm Beach, Florida 33416-5425
Telephone: (561) 681-6600
Fax: : (561) 681-6755

Broward County Department of Natural
Resource Protection
Air Quality Division
218 Southwest First Avenue
Ft. Lauderdale, Florida 33301
Telephone: (954) 519-1220
Fax: : (954) 519-1495

The complete project file includes the Draft Permit Amendment, the application, and the information submitted by the responsible official, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Administrator, New Resource Review Section at 111 South Magnolia Drive, Suite 4, Tallahassee, Florida 32301, or call 850/488-1344, for additional information.

TECHNICAL EVALUATION
AND
PRELIMINARY DETERMINATION

Wheelabrator North Broward, Inc.

Wheelabrator North Broward, Inc.
Pompano Beach, Florida
Broward, County

PSD-FL-112(A)
Facility ID No.: 0112120

Department of Environmental Protection
Division of Air Resources Management
Bureau of Air Regulation

February 12, 1998

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

1. APPLICATION INFORMATION

1.1 *Applicant Name and Address*

Wheelabrator North Broward, Inc.
2600 N. W. 48th Street
Pompano Beach, Florida 33073

Authorized Representative
Mr. Thomas D. Kirk, Plant Manager

1.2 *Reviewing and Process Schedule*

12-04-97: Date of Receipt of Application
12-04-97: Application deemed complete/sufficient
02-12-97: Issued Intent

2. FACILITY INFORMATION

2.1 *Facility Location*

The Wheelabrator North Broward, Inc. facility is located 2600 N. W. 48th Street, Pompano Beach, Broward County. The UTM coordinates of this facility are Zone 17 ; 583.5 km E ; 2,907.5 km N.

2.2 *Standard Industrial Classification Code (SIC)*

| | | |
|-----------------|------|--------------------------------------|
| Major Group No. | 49 | Electric, Gas, and Sanitary Services |
| Group No. | 495 | Sanitary Services |
| Industry No. | 4953 | Refuse Systems |

2.3 *Facility Category*

This facility produces electricity by combusting solid waste, recovering the heat as steam, and expanding the steam in an electrical generator. The solid waste burned is typically characterized as "refuse such as garbage and trash (as defined in Chapter 17-7, FAC) but not grease, scum, grit screenings or sewage sludge." Each of the three incinerators at the facility is permitted to combust up to 605 tons per day (110% of rated capacity) of municipal solid waste (MSW). The electricity produced is sold to the local utility.

The facility is classified as a major, or Title V, source of air pollution because emissions of at least one regulated air pollutant exceed 100 tons per year. Air pollutant emissions

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

are over 100 TPY for sulfur dioxide (SO₂), nitrogen oxides (NO_x) and carbon monoxide (CO). It is also a major source because emissions of hazardous air pollutants exceed 10 tons per year individually or 25 tons per year in the aggregate.

This facility is on the list of the 28 Major Facility Categories, Table 62-212.400-1, F.A.C. Because emissions are greater than 100 tons per year for at least one criteria pollutant, the facility is also a major facility with respect to Rule 62-212.400, F.A.C., Prevention of Significant Deterioration (PSD).

The facility was issued a PSD permit, including a determination of Best Available Control Technology (BACT), by the United States Environmental Protection Agency (EPA) on June 26, 1987.

3. PROJECT DESCRIPTION

3.1 *This permit addresses the following emissions units:*

| EMISSION UNIT NO. | SYSTEM | EMISSION UNIT DESCRIPTION |
|-------------------|---------|----------------------------------|
| -001 | Unit #1 | 605 Tons per Day MSW Incinerator |
| -002 | Unit #2 | 605 Tons per Day MSW Incinerator |
| -003 | Unit #3 | 605 Tons per Day MSW Incinerator |

On December 4, 1997, Wheelabrator North Broward, Inc. requested a revision to their existing PSD permit for clarification of the permitted fuels allowed to be combusted at the North Broward Resource Recovery Facility. The permit currently allows for the combustion of "refuse such as garbage and trash (as defined in Chapter 17-7, FAC) but not grease, scum, grit screenings or sewage sludge." Specifically, the request seeks approval to also combust pharmaceutical wastes, used oil filters and tires in addition to municipal solid waste. In addition to this request, the Department will replace the term "refuse such as garbage or trash (as defined in Chapter 17-7, FAC)" with the terms municipal solid waste or municipal-type waste or MSW as they are defined in both 40 CFR 60.51a and 51b.

The proposed fuels allowed to be combusted at the emissions units are:

A. Municipal Solid Waste or Municipal-Type Waste or MSW Municipal solid waste or municipal-type waste or MSW means household, commercial/retail, and/or institutional waste. Household waste includes material discarded by single and multiple residential dwellings, hotels, motels, and other similar permanent or temporary housing establishments or facilities. Commercial/retail waste includes material discarded by stores,

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

offices, restaurants, warehouses, nonmanufacturing activities at industrial facilities, and other similar establishments or facilities. Institutional waste includes material discarded by schools, nonmedical waste discarded by hospitals, material discarded by nonmanufacturing activities at prisons and government facilities, and material discarded by other similar establishments or facilities. Household, commercial/retail, and institutional waste does not include used oil; sewage sludge; wood pallets; construction, renovation and demolition wastes (which includes but is not limited to railroad ties and telephone poles); clean wood; industrial process or manufacturing wastes; medical waste; or motor vehicles (including motor vehicle parts or vehicle fluff). Household, commercial/retail, and institutional wastes includes yard waste and refuse-derived fuel.

B. Used Oil Filters

C. Tires Tires (whole or shredded) may be processed/fed to this emissions unit(s) up to three (3) percent by weight of the permitted capacity of the emissions unit(s).

D. Pharmaceutical Wastes Pharmaceutical wastes include the following:

- (1) Expired pharmaceuticals (Rx);
- (2) Over the counter medicines, treatments, and supplements (OTC);
- (3) Health and beauty products (HB);
- (4) Off-specification, recalled or out of date Rx, OTC and HB;
- (5) Small amounts of bulk containers of Rx, OTC and HB;
- (6) Packaging material including glass, plastic, and paper for Rx, OTC and HB; and
- (7) Controlled substances confiscated by law enforcement agencies.

4. PROCESS DESCRIPTION

4.1 *General Information*

The facility is a waste-to-energy installation employing mass burning of solid waste, heat recovery as superheated steam, and power generation in a steam electric cycle. Other than landfilling, this is the most common method of solid waste disposal in the United States. There are twelve such facilities in the State of Florida. The following is a general description of the process:

Waste is received via transfer, roll-off, or collection vehicles. All waste is taken to the Refuse Receiving Building, where it is deposited onto the tipping floor or into the Refuse Storage Pit. The refuse is stored at this location until needed to charge the combustion units.

Charging of the combustion units is accomplished using overhead cranes equipped with "orange peel" grapples. These stack, mix, and relocate waste within the pit and transfer it

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

into the feed hoppers serving each unit. The waste enters the three refuse-fired steam generators, each of which consists of an integrated mass-burn furnace and boiler.

Combustion air is drawn from the refuse tipping area (assisting in odor control) and conveyed through the gas side of the air preheater and into the refuse-fired generators where the waste is combusted. Exhaust gases from the refuse-fired generators pass through an economizer units and are ducted to the air pollution control systems which consists of spray dryer adsorbers and fabric filter bag houses. Treated gases are exhausted to the atmosphere through three individual flues within a single 195 foot stack. Bottom ash from the furnaces is removed, quenched and processed for metal recovery and disposal.

The superheated steam from each boiler enters a turbine where it is expanded. Each turbine powers a 68.5 megawatt electric power generator. The electric power is introduced into the electrical grid and is purchased by the local utility.

5. RULE APPLICABILITY

The Department has determined that the proposed additional waste to be burned is subject to preconstruction review requirements under the provisions of Chapter 403, Florida Statutes, and Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.).

This facility is located in Broward County, an area designated as attainment for all criteria pollutants in accordance with Rule 62-204.360, F.A.C. The professional engineer's certification states that the net emissions increase, as defined in Rule 62-212.400(e), F.A.C., for each pollutant from the proposed revision to PSD-FL-112 is zero. The proposed project is not subject to review under Rule 62-212.400., F.A.C., Prevention of Significant Deterioration (PSD), because the potential emission increases are zero for each pollutant and thereby do not exceed the significance emission rates given in Chapter 62-212, Table 62-212.400-2, F.A.C.

The emission units affected by this revision shall comply with all applicable provisions of the Florida Administrative Code (including applicable portions of the Code of Federal Regulations incorporated therein) and, specifically, the following Chapters and Rules:

| | |
|-----------------|--|
| Chapter 62-4 | Permits. |
| Rule 62-204.220 | Ambient Air Quality Protection |
| Rule 62-204.240 | Ambient Air Quality Standards |
| Rule 62-204.260 | Prevention of Significant Deterioration Increments |
| Rule 62-204.360 | Designation of Prevention of Significant Deterioration Areas |
| Rule 62-204.800 | Federal Regulations Adopted by Reference |
| Rule 62-210.300 | Permits Required |

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

| | |
|-----------------|--|
| Rule 62-210.350 | Public Notice and Comments |
| Rule 62-210.370 | Reports |
| Rule 62-210.550 | Stack Height Policy |
| Rule 62-210.650 | Circumvention |
| Rule 62-210.700 | Excess Emissions |
| Rule 62-210.900 | Forms and Instructions |
| Rule 62-212.300 | General Preconstruction Review Requirements |
| Rule 62-212.400 | Prevention of Significant Deterioration |
| Rule 62-213 | Operation Permits for Major Sources of Air Pollution |
| Rule 62-296.320 | General Pollutant Emission Limiting Standards |
| Rule 62-297.310 | General Test Requirements |
| Rule 62-297.401 | Compliance Test Methods |
| Rule 62-297.520 | EPA Continuous Monitor Performance Specifications |

6. SOURCE IMPACT ANALYSIS

6.1 *Emission Limitations*

There will be no change to the emissions limits of permit PSD-FL-112.

6.2 *Emission Summary*

[EMISSION UNIT Nos. -001, -002 or -003]

| Pollutants | Current Allowable | | New Allowable | | Net Increase ton/yr | PSD Significant Level ton/yr |
|-----------------|-------------------|----------|---------------|----------|------------------------|---------------------------------|
| | lb/hr | ton/yr | lb/hr | ton/yr | | |
| PM | 11.9 | 52.11 | 11.9 | 52.11 | 0 | 25 |
| SO ₂ | 31.77 | 139.2 | 31.77 | 139.2 | 0 | 40 |
| NO _x | 127.1 | 556.5 | 127.1 | 556.5 | 0 | 40 |
| CO | 20.4 | 89.4 | 20.4 | 89.4 | 0 | 100 |
| Fluorides | 0.91 | 4.0 | 0.91 | 4.0 | 0 | 3 |
| Mercury | 0.17 | 0.75 | 0.17 | 0.75 | 0 | 0.1 |
| Beryllium | 2.11E-04 | 9.24E-04 | 2.11E-04 | 9.24E-04 | 0 | 0.0004 |
| Lead | 0.127 | 0.56 | 0.127 | 0.56 | 0 | 0.6 |

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

6.3 Control Technology Review

There will be no change to the existing emissions control systems. Each unit is equipped with a spray dryer adsorber and a fabric filter baghouse system.

6.4 Air Quality Analysis

6.4.1 Introduction

An air quality analysis was not required for this project.

7. CONCLUSION

Based on the foregoing technical evaluation of the application submitted by Wheelabrator North Broward, Inc., the Department has made a preliminary determination that the proposed project will comply with all applicable state and federal air pollution regulations provided certain conditions are met. The Specific Conditions are listed in the attached draft permit amendment.

Permit Engineer: Edward J. Svec



Department of Environmental Protection

DRAFT

Lawton Chiles
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Virginia B. Wetherell
Secretary

[Month day, year]

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Thomas D. Kirk
Plant Manager
Wheelabrator North Broward, Inc.
2600 N. W. 48th Street
Pompano Beach, Florida 33073

Re: Permit Amendment No. PSD-FL-112(A)
Wheelabrator North Broward, Inc.
Dear Mr. Kirk:

The Department has reviewed Wheelabrator North Broward, Inc.'s December 4, 1997 letter requesting an amendment to its permit to revise their existing PSD permit to clarify the permitted fuels allowed to be combusted at the North Broward Resource Recovery Facility. The permit currently allows for the combustion of "refuse such as garbage and trash (as defined in Chapter 17-7, FAC) but not grease, scum, grit screenings or sewage sludge." Specifically, the request seeks approval to also combust pharmaceutical wastes, used oil filters and tires in addition to municipal solid waste. In addition to this request, the Department will replace the term "refuse such as garbage or trash (as defined in Chapter 17-7, FAC)" with the terms municipal solid waste or municipal-type waste or MSW as they are defined in both 40 CFR 60.51a and 51b.

This request is acceptable and the permit is hereby amended as follows:

From:

Part I. - Specific Conditions

7. Fuel

The Resource Recovery Facility shall utilize refuse such as garbage and trash (as defined in Chapter 17-7, F.A.C.) but not grease, scum, grit screenings, or sewage sludge.

To:

Part I. - Specific Conditions

7. Fuel

The Resource Recovery Facility shall utilize:

A. Municipal Solid Waste or Municipal-Type Waste or MSW Municipal solid waste or municipal-type waste or MSW means household, commercial/retail, and/or institutional waste. Household waste includes material discarded by single and multiple residential dwellings, hotels, motels, and other similar permanent

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or temporary housing establishments or facilities. Commercial/retail waste includes material discarded by stores, offices, restaurants, warehouses, nonmanufacturing activities at industrial facilities, and other similar establishments or facilities. Institutional waste includes material discarded by schools, nonmedical waste discarded by hospitals, material discarded by nonmanufacturing activities at prisons and government facilities, and material discarded by other similar establishments or facilities. Household, commercial/retail, and institutional waste does not include used oil; sewage sludge; wood pallets; construction, renovation and demolition wastes (which includes but is not limited to railroad ties and telephone poles); clean wood; industrial process or manufacturing wastes; medical waste; or motor vehicles (including motor vehicle parts or vehicle fluff). Household, commercial/retail, and institutional wastes includes yard waste and refuse-derived fuel.

B. Used Oil Filters

C. Tires Tires (whole or shredded) may be processed/fed to this emissions unit(s) up to three (3) percent by weight of the permitted capacity of the emissions unit(s).

D. Pharmaceutical Wastes Pharmaceutical wastes include the following:

- (1) Expired pharmaceuticals (Rx);
- (2) Over the counter medicines, treatments, and supplements (OTC);
- (3) Health and beauty products (HB);
- (4) Off-specification, recalled or out of date Rx, OTC an HB;
- (5) Small amounts of bulk containers of Rx, OTC and HB;
- (6) Packaging material including glass, plastic, and paper for Rx, OTC and HB; and
- (7) Controlled substances confiscated by law enforcement agencies.

The Resource Recovery Facility shall not utilize grease, scum, grit screenings, or sewage sludge.

A copy of this letter shall be filed with the referenced permit and shall become part of the permit.

Sincerely,

Howard L. Rhodes, Director
Division of Air Resources
Management

HLR/ejs

Enclosures

is your RETURN ADDRESS completed on the reverse:

card to you.
 Attach this form to the front of the mailpiece, or on the back if space does not permit.
 Write "Return Receipt Requested" on the mailpiece below the article number.
 The Return Receipt will show to whom the article was delivered and the date delivered.

Following services (for an extra fee):
 1. Addressee's Address
 2. Restricted Delivery
 Consult postmaster for fee.

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| 3. Article Addressed to: Mr. Thomas D. Kirk, Plant Manager Wheelabrator N. Broward 2600 NW 48th St. Pompano Beach, FL 33073 | | 4a. Article Number P 265 659 295 |
| 5. Received By: (Print Name) | | 4b. Service Type <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> COD |
| 6. Signature: (Addressee or Agent) X D. House | | 7. Date of Delivery 2-18-98 |
| | | 8. Addressee's Address (Only if requested and fee is paid) |

PS Form 3811, December 1994

Domestic Return Receipt

Thank you for using Return Receipt Service.

P 265 659 295

US Postal Service
Receipt for Certified Mail
 No Insurance Coverage Provided.
 Do not use for International Mail (See reverse)

| | |
|--|--------------------------|
| Sent to | Thomas Kirk |
| Street & Number | Wheelabrator N 2600 |
| Post Office, State, & ZIP Code | Pompano Beach, FL |
| Postage | \$ |
| Certified Fee | |
| Special Delivery Fee | |
| Restricted Delivery Fee | |
| Return Receipt Showing to Whom & Date Delivered | |
| Return Receipt Showing to Whom Date, & Addressee's Address | |
| TOTAL Postage & Fees | \$ |
| Postmark or Date | 2-16-98 PSD-FI-112(A) |

PS Form 3800 April 1995