Division of Solid and Hazardous Waste
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SOLID WASTE FACILITY PERMIT

Under the provisions of N.J.S.A. 13:1E-1 *et seq.* known as the Solid Waste Management Act, this permit is hereby issued to:

WHEELABRATOR GLOUCESTER COMPANY, L.P.

Facility Type:	Thermal Destruction Facility
Lot No.:	9
Block No.:	1
Municipality:	West Deptford Township
County:	Gloucester
Facility Registration No.:	0820000394

This permit is subject to compliance with all conditions specified herein and all regulations promulgated by the Department of Environmental Protection.

This permit shall not prejudice any claim the State may have to riparian land, nor does it allow the permittee to fill or alter or allow to be filled or altered in any way, lands that are deemed to be riparian, wetlands, stream encroachment areas or flood plains, or that are within the Coastal Area Facility Review Act (CAFRA) zone or are subject to the Pinelands Protection Act of 1979, nor shall it allow the discharge of pollutants to waters of this State without prior acquisition of the necessary grants, permits, or approvals from the Department of Environmental Protection.

March 20, 2003
Issuance Date

Thomas Sherman, Assistant Director
Office of Permitting & Technical Programs

February 23, 2006
Expiration Date

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Scope of Permit

This Permit, along with the referenced application documents herein specified, shall constitute the sole Solid Waste Facility Permit for the operation of a thermal destruction facility by Wheelabrator Gloucester Company, L.P. located in West Deptford Township, Gloucester County, New Jersey. The Solid Waste Facility Permit is a permit renewal to the Solid Waste Facility Permit issued to Wheelabrator Gloucester Company, L.P. on February 23, 1996. Any registration, approval or permit previously issued to Wheelabrator Gloucester Company, L.P. by the Division of Solid and Hazardous Waste or its predecessor agencies is hereby superseded.

This Permit does not convey any property rights of any sort, or any exclusive privilege. Failure to comply with all the conditions specified herein may result in revocation of this Permit and/or may result in such other regulatory or legal actions which the Department is authorized by law to institute.

Regulated Activities at the Facility

Section I of this Permit contains the general conditions applicable to all solid waste facilities. Section II of this Permit contains general operating requirements for all thermal destruction facilities that receive, store, process or transfer solid waste. Section III of this Permit contains specific conditions applicable to the operations of this facility.

Facility Description

The Gloucester County Resource Recovery Facility is a large scale, waterwall incinerator equipped to recover heat energy in the form of steam for use in producing electric power. This facility combusts four basic waste types: ID #10 - Municipal Waste, ID #13 - Bulky Waste (selected materials), ID #23 - Vegetative Waste and ID #25 - Food Processing Waste. The majority of solid waste delivered to this facility for processing originates from sources located within Gloucester County. The rate at which waste can be combusted at this facility is limited to an annual rate of 209,875 tons per year. This equates to the processing of 575 tons of waste as a daily average, over the reporting year. The rate at which the facility can process waste is further restricted by a maximum steam production limitation of 286,664 pounds per boiler, over any discrete four-hour period of facility operation. The facility is equipped with two independent processing lines, and the tonnage limit referenced above pertains to the combined capacities of both processing lines in defining overall facility capacity.

The facility is operated 24 hours per day, 7 days per week. Waste deliveries are made to the facility Monday through Friday, from 7:00 A.M. to 5:00 P.M. and on Saturday between 8:00 A.M. to 12:00 P.M. Approximately 2200 tons of waste can be stockpiled within the refuse storage bunker in order to handle periods of peak waste deliveries.

Section I - General Conditions Applicable to All Permits

1. Duty to Comply

(a) Pursuant to N.J.A.C. 7:26-2.8(i), the permittee shall operate the facility in compliance with the requirements of N.J.A.C. 7:26-2.11.

(b) Pursuant to N.J.A.C. 7:26-2.8(j), the permittee shall operate the facility in conformance with all of the conditions, restrictions, requirements and any other provisions set forth in this permit.

(c) Pursuant to N.J.A.C. 7:26-2.8(k), except for minor modifications as set forth at N.J.A.C. 7:26-2.6(d), the permittee shall not modify, revise or otherwise change any condition of this permit without prior written approval of the Department.

2. Duty to Reapply

(a) Pursuant to N.J.A.C. 7:26-2.7(b)1, if the permittee wishes to continue the operation of this facility after the expiration date of this permit, the permittee shall apply for permit renewal at least 90 days prior to the expiration date of this permit, and the facility must be included in the District Solid Waste Management Plan at the time of such application.

(b) Pursuant to N.J.A.C. 7:26-2.7(c), the conditions of this permit shall continue in force beyond the expiration date of this permit pursuant to the Administrative Procedure Act, N.J.S.A. 52:14B-11, until the effective date of a new permit if:

(1) The permittee has submitted a timely and complete application for a renewal permit pursuant to (a) above; and

(2) The Department, through no fault of the permittee, does not issue a new permit with an effective date on or before the expiration date of this permit, due to time or resource constraints.

(c) Pursuant to N.J.A.C. 7:26-2.7(d), permits continued under said section remain fully effective and enforceable, and if the permittee is not in compliance with any one of the conditions of the expiring or expired permit the Department may choose to do any or all of the following:

(1) Initiate enforcement action based on the permit which has been continued;

(2) Issue a notice of intent to deny the new permit under N.J.A.C. 7:26-2.4. If the permit is denied, the permittee would then be required to cease activities and operations authorized by the continued permit or be subject to an enforcement action for operating without a permit;

(3) Issue a new permit under N.J.A.C. 7:26-2.4 with appropriate conditions; or

(4) Take such other actions as are authorized by N.J.A.C. 7:26-1 *et seq.* or the Solid Waste Management Act, N.J.S.A. 13:1E-1 *et seq.*

3. Need to Mitigate

(a) Pursuant to N.J.A.C. 7:26-2.8(p), should the Department determine that the facility is operating in an environmentally unsound manner, the permittee shall:

(1) Within 90 days of notification by the Department, submit a plan to close or environmentally upgrade the facility in conformance with the applicable standards, as determined by the Department and set forth in N.J.A.C. 7:26-1 *et seq.*;

(2) Within 90 days of receipt of written approval by the Department of the submitted plan, begin to close or construct the environmental upgrading at the facility; and

(3) Within one year of receipt of written approval by the Department of the submitted plan, complete closure or construction of the environmental upgrading at the facility.

(b) Pursuant to N.J.A.C. 7:26-2.8(q), a one time extension of the compliance schedule established by N.J.A.C. 7:26-2.8(p) shall be granted by the Department provided the permittee demonstrates that it has made a good faith effort to meet the schedule.

(c) Pursuant to N.J.A.C. 7:26-2.8(r), should the environmental upgrading required pursuant to N.J.A.C. 7:26-2.8(p) not be completed or should continued operations be determined by the Department to be environmentally unsound despite the implementation of the plan approved pursuant to N.J.A.C. 7:26-2.8(p), the facility shall temporarily or permanently cease operations and close or enter into receivership, as provided for in N.J.S.A. 13:1E-9, for that period of time necessary to rectify the environmentally unsound conditions.

4. Permit Actions

(a) Pursuant to N.J.A.C. 7:26-2.6(a)1, if cause exists, the Department may modify, or revoke and reissue this permit, subject to the limitations of that section, and may require the permittee to submit an updated or new application in accordance with N.J.A.C. 7:26-2.6(e), if appropriate.

(b) Pursuant to N.J.A.C. 7:26-2.6(b), the Department may modify or, alternatively, revoke and reissue this permit if cause exists for termination under N.J.A.C. 7:26-2.6(c) and the Department determines that modification or revocation and reissuance is appropriate.

(c) Pursuant to N.J.A.C. 7:26-2.6(d), upon the request of the permittee, an interested party or for good cause, the Department may make certain minor modifications to a permit without issuing a tentative approval, providing public notice thereof or holding a public hearing thereon.

5. Signatory Requirements

(a) All completed registration statements submitted by the permittee shall be signed as specified at N.J.A.C. 7:26-2.4(e)1.

(b) All engineering designs and reports, the environmental and health impact statement, other information requested as "Addendums" by the Department pursuant to N.J.A.C. 7:26-2.4(f) and (g)4 and documents required to be submitted pursuant to N.J.A.C. 7:26-2.9 and 2.10, submitted on behalf of the permittee, shall be signed by a person described in N.J.A.C. 7:26-2.4(e)1 or by a duly authorized representative of that person, as specified at N.J.A.C. 7:26-2.4(e)2.

(c) Any person signing a registration statement, engineering design or report, environmental and health impact statement or addendum mentioned in N.J.A.C. 7:26-2.4(e)1 or (e)2, submitted on behalf of the permittee, shall make the certification specified at N.J.A.C. 7:26-2.4(e)3.

6. Transfers

(a) Pursuant to N.J.A.C. 7:26-2.8(l), the permittee shall not transfer ownership of the permit without receiving prior written approval of the Department, in accordance with N.J.A.C. 7:26-2.7(e).

(b) Pursuant to N.J.A.C. 7:26-2.7(e)1, a written request for permission to allow any transfer of ownership or operational control of the facility must be received by the Department at least 180 days in advance of the proposed transfer. The request for approval shall include the following:

(1) A registration statement, completed by the prospective new permittee on forms provided by the Department;

(2) A disclosure statement as required by N.J.A.C. 7:26-16.4 completed by the proposed transferee;

(3) A written agreement between the permittee and the proposed new permittee containing a specific future date for transfer of ownership or operations.

(c) Pursuant to N.J.A.C. 7:26-2.7(e)2, a new owner or operator may commence operations at the facility only after the existing permit has been revoked and a permit is issued pursuant to N.J.A.C. 7:26-2.4.

(d) Pursuant to N.J.A.C. 7:26-2.7(e)3, the permittee of record remains liable for ensuring compliance with all conditions of the permit unless and until the existing permit is revoked and a new permit is issued in the name of the new owner or operator.

(e) Pursuant to N.J.A.C. 7:26-2.7(e)4, compliance with the transfer requirements set forth in that subsection shall not relieve the permittee from the separate responsibility of providing notice of such transfer pursuant to the requirements of any other statutory or regulatory provision.

7. Registration Statement

(a) Pursuant to N.J.A.C. 7:26-2.8(b), prior to May 1 of each calendar year the permittee shall submit to the Department a statement updating the information contained in the permittee's initial registration statement. This update shall be on forms furnished by the Department. In no case shall submission of an updated statement alter the conditions of this permit.

(b) Pursuant to N.J.A.C. 7:26-2.8(c), the permittee shall notify the Department in writing within 30 days of any change in the information set forth in the permittee's current registration statement.

(c) Pursuant to N.J.A.C. 7:26-2.8(d), failure of the permittee to submit an updated registration statement and to submit all applicable fees, required by N.J.A.C. 7:26-4, on or before July 1 of each calendar year shall be sufficient cause for the Department to revoke this permit or take such other enforcement action as is appropriate.

8. Duty to Update Disclosure Statement

(a) Pursuant to N.J.A.C. 7:26-16.6(b), the permittee and/or facility operator shall report to the Department and the Attorney General within 30 days any changes or additions in the information required to be included in the disclosure statement, as specified at N.J.A.C. 7:26-16.6.

(b) Pursuant to N.J.A.C. 7:26-16.6(c), the permittee and/or facility operator shall report any other changes in the information contained in the permittee's disclosure statement currently on file with the Department and the Attorney General in an annual update to be filed with the Department at the time of the permittee's annual renewal of its registration with the Department, as specified at N.J.A.C. 7:26-16.6.

9. Operating Record and Reporting Requirements

(a) The permittee shall maintain a daily record of wastes received. The record shall include the information specified at N.J.A.C. 7:26-2.13(a).

(b) The daily record shall be maintained, shall be kept, and shall be available for inspection in accordance with N.J.A.C. 7:26-2.13(b).

(c) The permittee shall verify, retain and make available for inspection a waste origin/disposal (O and D) form for each load of solid waste received in accordance with N.J.A.C. 7:26-2.13(c).

(d) The permittee shall submit monthly summaries of wastes received to the Division of Solid and Hazardous Waste, Bureau of Recycling and Planning and the Solid Waste Coordinator for the district where the facility is located, on forms provided by the Department (or duplicates of same), no later than 20 days after the last day of each month. The monthly summaries shall include the information specified at N.J.A.C. 7:26-2.13(e).

(e) Pursuant to N.J.A.C. 7:26-6.4, upon request by the Department, the permittee shall submit, in such form as the Department may deem appropriate, information concerning the sources of wastes received and the transportation or disposal patterns associated with such wastes.

10. Conformance to the District Solid Waste Management Plan

Pursuant to N.J.A.C. 7:26-6.12(b), the permittee shall operate the facility in compliance with any applicable district solid waste management plan(s) as well as any amendments to and/or approved administrative actions concerning such plan(s). Should the permittee fail to comply with any applicable district solid waste management plan(s) as well as any amendment to or approved administrative actions concerning such plan(s), the permittee shall be deemed in violation of N.J.S.A. 13:1E-1 *et seq*. and N.J.A.C. 7:26-1 *et seq*. and shall be subject to applicable penalties provided thereunder, and any other applicable laws or regulations.

11. Compliance with Other State Regulations and Statutes

Pursuant to N.J.A.C. 7:26-2.8(h), the issuance of this permit shall not exempt the permittee from obtaining all other permits or approvals required by law or regulations.

End of Section I

Section II - General Operating Requirements

1. General Operating Requirements for All Solid Waste Facilities

(a) Pursuant to N.J.A.C. 7:26-2.11(b), the facility must be operated in compliance with the following general operating requirements:

(1) Within each 24-hour period the operator shall clean each area where waste has been deposited or stored, except for those storage areas at thermal destruction facilities which are designed for multiple day storage capability and/or as exempted by condition 1(b)2 of this section; for sanitary landfills all areas where waste has been deposited shall be covered with the appropriate cover material except as permitted by condition 1(b)2 of this section.

(2) No waste shall be stored overnight at the facility without effective treatment to prevent odors associated with putrefaction.

(3) Facility property surrounding the actual disposal area shall be maintained free of litter, debris, and accumulations of unprocessed waste, process residues and effluents. Methods of effectively controlling wind-blown papers and other lightweight materials such as fencing shall be implemented at the facility.

(4) Methods of effectively controlling dust shall be implemented at the facility in order to prevent offsite migration.

(5) The operation of the facility shall not result in the emission of air contaminants in violation of N.J.A.C. 7:27-5.2(a).

(6) The operator shall maintain all facility systems and related appurtenances in a manner that facilitates proper operation and minimizes system downtime. When requested, the operator of the facility shall furnish proof that provisions have been made for the repair and replacement of equipment which becomes inoperative.

(7) An adequate water supply and adequate fire-fighting equipment shall be maintained at the facility or be readily available to extinguish any and all types of fires. Fire-fighting procedures as delineated in the approved final operations and maintenance manual, including the telephone numbers of local fire, police, ambulance and hospital facilities, shall be posted in and around the facility at all times.

(8) The operator shall effectively control insects, other arthropods and rodents at the facility by means of a program in compliance with the requirements of the New Jersey Pesticide Control Code, N.J.A.C. 7:30, and implemented by an applicator of pesticides, certified in accordance with the New Jersey Pesticide Control Code, N.J.A.C. 7:30.

(9) The operator shall at all times comply with the conditions of this permit, as well as all other permits or certificates required and issued by the Department or any other governmental agency. The operator shall not receive, store, handle, process or dispose of waste types not specifically identified in Section III of this permit or other permit or certificate issued by the Department.

(10) The quantity of waste received by the facility operator shall not exceed the system's designed handling, storage, processing or disposal capacity as identified in Section III of this permit or other permit certificate. The designed processing and disposal capacity approved within this permit, or any other permit certificate or approval conditions shall be inclusive of all solid waste received at the facility as well as all source separated recyclables received.

(11) The facility shall be operated in a manner that employs the use of the equipment and those techniques for the receipt, storage, handling, processing or disposal of incoming waste and process residues that are specifically authorized by this permit.

(12) The approved final operations and maintenance (O and M) manual as referenced in Section III of this permit shall be maintained at the facility. A written description of any proposed changes to the approved, final O and M manual shall be submitted to the Department for review. These proposed changes shall not be implemented at the facility until the Department approves the changes.

(b) Pursuant to N.J.A.C. 7:26-2.11(c), if solid waste is received from off site the facility must be operated in compliance with the following general operating requirements:

(1) Only solid waste vehicles properly registered, pursuant to N.J.A.C. 7:26-3, with the Division of Solid and Hazardous Waste, unless exempt from the registration requirement pursuant to N.J.A.C. 7:26-3.3, and displaying the appropriate registration number and solid waste decal shall be admitted for loading or unloading of any solid waste at the facility. Solid waste vehicles exempt from registration pursuant to N.J.A.C. 7:26-3.3, or those which must be manually unloaded, shall not be admitted to the tipping area when registered, commercial type solid waste vehicles including, but not limited to, compactor trucks, trailers or any solid waste vehicle that tilts or uses other mechanical means to discharge its solid waste are being unloaded, or when other heavy equipment is being operated in the tipping area. The facility shall be sufficiently staffed to ensure that this requirement is not violated.

(2) The operator shall designate a secure area under the facility's control, located a safe distance from the tipping area, where solid waste may be unloaded from those solid waste vehicles which are either exempt from the registration requirements of N.J.A.C. 7:26-3.3 or which must be manually unloaded. Bulky items and recyclable materials may be provided for in this manner.

(3) The operator shall designate a secure area under the facility's control, located a safe distance from the active disposal area, where solid waste, including suspected hazardous waste, which the facility is not permitted to receive shall be deposited until the operator receives instruction from the Department as to the proper disposal of the unpermitted waste.

(4) The operator shall maintain a record of the quantity of each authorized waste type accepted for disposal, in accordance with N.J.A.C. 7:26-2.13. In the event that the facility is exempt from the use of scales to physically weigh the waste, volume to weight conversions shall be made by means of formulae furnished by the department.

(5) The operator shall provide a means of removing mud, solid waste or other debris from the tires of all vehicles. Vehicle tires shall be cleaned prior to the vehicle's departure from the facility's boundaries.

(c) Pursuant to N.J.A.C. 7:26-2.11(d), Department inspectors shall have the right to enter and inspect any building or other portion of the facility, at any time. This right to inspect includes, but is not limited to:

(1) Sampling any materials on site;
(2) Photographing any portion of the facility;
(3) Investigating an actual or suspected source of pollution of the environment;
(4) Ascertaining compliance or non-compliance with any statutes, rules, or regulations of the Department, including conditions of the SWF permit or other permit or certificate issued by the Department; or
(5) Reviewing and copying all applicable records, which shall be furnished upon request and made available at all reasonable times for inspection.

2. General Operating Requirements for Thermal Destruction Facilities

Pursuant to N.J.A.C. 7:26-2B.8, the facility must be operated in compliance with the following general operating requirements:

(a) The owner or operator shall conduct inspections as indicated in the approved final O and M manual in order to identify and remedy any problems;

(b) The owner and/or operator shall record the results of the inspections in a log book or by means of an electronic storage system approved by the Department which shall be accessible at the facility at all times for inspection by the Department. These records shall include the date and time of the inspection, the name of the inspector, a notation of observations and recommendations and the date and nature of any repairs or other remedial actions taken.

(c) A Department inspector may, at the option of the Department, be stationed at district facilities on a daily basis and during all facility operating hours. The owner and/or operator of such a facility shall allow entry to the inspector at any time during operating hours. The owner and/or operator shall make available office space for

Department personnel to prepare inspection reports.

(d) The owner or operator shall implement waste receiving area control procedures that provide for the inspection of the incoming waste stream for the purpose of removing unprocessible or potentially explosive materials prior to the initiation of processing. In addition, the inspection shall effectively prevent the acceptance of unauthorized waste types. These procedures and necessary contingency plans shall be incorporated into the approved final O and M manual referenced in Section III of this permit.

(e) Should situations arise where the facility experiences equipment or system malfunction to the extent that the waste received cannot be handled or processed in the normal manner, as specified in this permit, then the operator shall notify the Department of the existence of such a situation and the circumstances contributing to the situation within the working day of its occurrence. The operator shall immediately pursue corrective measures. The continued receipt of wastes at the facility shall be limited to that quantity and type that can be handled, stored and processed in conformance with the facility's remaining approved operational capacity.

(f) Arrangements for facility generated waste disposal shall be established and maintained throughout the life of the facility. These waste disposal arrangements shall be in conformance with the Solid Waste Management Plan of the District in which the facility is located and with the rules of the Department.

(g) Unprocessed incoming waste, facility process waste residues and effluents, and recovered materials shall be stored in bunkers, pits, bins, or similar containment vessels and shall be kept at all times at levels that prevent spillage or overflow.

(h) During periods when the facility is not processing wastes and during hours when waste is not being received, waste delivery tipping hall doors shall be kept closed to minimize potential migration of odors and dust to the exterior in accordance with N.J.A.C. 7:27.

(i) The delivery of waste to the facility and the removal of residues and recovered products from the site shall be scheduled so as to eliminate traffic backups and allow for fluid vehicular movement on site.

(j) Samples and measurements taken for the purpose of monitoring facility process and treatment operations shall be representative of the process or operation and shall be performed in accordance with the conditions of this permit, as well as the requirements of other regulatory agencies where applicable. Monitoring shall be conducted through the use of continuous monitoring instrumentation, where feasible.

(k) Prior to disposal, the permittee shall perform a waste determination on all residual ash, in accordance with N.J.A.C. 7:26G-6. Such determination shall be based on analyses of representative composite samples collected in the manner specified in Section III of this permit. At a minimum the sampling shall include analyses for toxicity characteristics and total dioxins and furans per EPA test method 1613B (EPA

report 821/B-94-005) or equivalent as approved by the Department, and shall be performed at the frequency specified in Section III of this permit.

(l) The Department may alter the list of ash test parameters, the methods of sample collection, the analytical procedures employed and the frequency of sampling and analysis deemed necessary. The permittee may request the Department to reduce the number of ash test parameters specified within the solid waste facility permit by applying qualitative knowledge of incoming waste streams. If the owner and/or operator demonstrates through testing that the concentration of any given parameter is consistently below method detection levels as determined using the Toxicity Characteristic Leaching Procedure (TCLP), as defined in USEPA's "Test Methods for Evaluating Solid Waste Physical/Chemical Methods SW-846" (SW-846), or the concentration of any given parameter as determined using a total metals analysis, as defined in SW-846, is consistently below 20 times the regulatory threshold levels of the TCLP, the permittee may request the Department to eliminate those parameters from subsequent analysis.

(m) The analyses required by conditions 2(k) and 2(l) of this section above shall be performed in accordance with procedures outlined in the most recent edition of "Test Methods for Evaluating Solid Waste-Physical/Chemical Methods," U.S.E.P.A. publication SW-846.

(n) The results of ash analysis, including the statistical evaluation of the analytical data conducted in accordance with SW-846, and related quality assessment and quality control information pertaining to sample collection, handling and laboratory analytical methodology, shall be submitted to the Department for evaluation. The owner and/or operator shall dispose of the onsite generated residual ash at a facility authorized and permitted to receive the waste type I.D. number assigned to the residual ash by the Department in accordance with its classification.

(o) The operator shall retain original records of all waste analyses and operations' monitoring reports at the facility for a period of three years from the date of measurement.

(p) Records of operations' monitoring and waste analyses required above shall include:

(1) The date, time and place of sampling, measurement or analysis;

(2) Chain of custody for all samples collected;

(3) The name of the individual who performed the sampling, measurement or analysis;

(4) The sampling and analytical methods including the minimum detection levels for the analytical procedure utilized;

(5) The results of such sampling, measurement or analyses; and

(6) The signature and certification of the report by an appropriate authorized agent for the facility.

(q) The permittee shall act to prevent accidental or unintentional entry and minimize the possibility for unauthorized entry into the facility. The facility shall have a 24-hour surveillance system which continuously monitors and controls entry to the facility or an artificial or natural barrier which completely surrounds the facility. In addition, the facility shall have a means to control entry at all times through the gates or other entrances to the facility.

(r) The owner and/or operator shall comply with the following requirements pertaining to facility staffing:

(1) Facilities shall maintain sufficient personnel during each scheduled shift to assure the proper and orderly operation of all system components, along with the ability to handle all routine facility maintenance requirements. Such personnel shall have sufficient educational background, employment experience and/or training to enable them to perform their duties in such a manner as to ensure the facility's compliance with the requirements of the Solid Waste Management Act at N.J.S.A. 13:1E, N.J.A.C. 7:26-1 *et seq.*, and the conditions of this permit;

(2) Each shift shall have a designated shift supervisor authorized by the owner or operator to direct and implement all operational decisions during that shift;

(3) A facility utilizing a boiler to generate steam, power or heat shall employ individuals licensed in accordance with the Rules and Regulations of the New Jersey Department of Labor, "Boilers, Pressure Vessels and Refrigeration," N.J.A.C. 12:90; and,

(4) Every district facility shall have under contract a New Jersey licensed professional engineer as a consultant to oversee the general plant operations. This engineer shall possess experience in the design and operation of the major system components or equipment that constitute the facility.

(s) The owner and/or operator shall comply with the following requirements pertaining to facility personnel training:

(1) All personnel who are directly involved in facility waste management activities or who operate, service, or monitor any facility equipment, machinery or systems shall successfully complete an initial program of classroom instruction and on-the-job training that includes instruction in the operation and maintenance of the equipment, machinery and systems which they must operate, service or monitor in the course of their daily job duties, and which teaches them to perform their duties in a manner that ensures the facility's compliance with the requirements of the Solid Waste Management

Act at N.J.S.A. 13:1E, N.J.A.C. 7:26-1 *et seq.* and the conditions of this permit;

(2) The training program shall be directed by a person thoroughly familiar with the technology being utilized at the facility and the conditions of the facility's permits;

(3) The training program shall ensure that facility personnel are able to effectively respond to any equipment malfunction or emergency situation that may arise. The training program shall provide instruction in the use of personal safety equipment, procedures for inspecting and repairing facility equipment, the use of communications or alarm systems, the procedures to be followed in response to fires, explosions or other emergencies, and the procedures to be followed during planned or unplanned shutdown of operations;

(4) Employees shall not work in unsupervised positions until they have completed the training program required herein;

(5) Facility personnel shall take part in a planned annual review of the initial training program; and

(6) Training records that document the type and amount of training received by current facility personnel shall be kept until closure of the facility. Training records on former employees shall be kept for at least one year from the date the employee last worked at the facility.

(t) The following actions shall be implemented in the case of an emergency:

(1) The plant operator or emergency coordinator shall immediately identify the character, exact source, amount and extent of any discharged materials and notify appropriate State or local agencies with designated response roles if their help is needed;

(2) Concurrently, the plant operator or emergency coordinator shall assess possible hazards to public health or the environment that may result from the discharge, fire or explosion. This assessment shall consider both direct and indirect effects;

(3) If the plant operator or emergency coordinator determines that the facility has had an uncontrolled discharge, a discharge above standard levels permitted by the Department, or a fire or explosion, he or she shall:

(i) Immediately notify appropriate local authorities if an assessment indicates that evacuation of local areas may be advisable;

(ii) Immediately notify the Department at 1-877-WARNDEP; and

(iii) When notifying the Department, report the type of substance and the estimated quantity discharged, if known, the location of the discharge, the action the person reporting the discharge is currently taking or proposing to take in order to mitigate the discharge and any other information concerning the incident which the Department may request at the time of notification.

(4) The plant operator shall take all reasonable measures to ensure that fires, explosions and discharges do not recur or spread to other areas of the facility. These measures shall include, where applicable, the cessation of process operations and the collection and containment of released waste;

(5) Immediately after an emergency, the plant operator or emergency coordinator shall provide for treating, storing or disposing of waste contaminated soil or water or any other material contaminated as a result of the discharge, fire or explosion;

(6) The plant operator or emergency coordinator shall insure that no waste is processed until cleanup procedures are completed and all emergency equipment listed in the contingency plan is again fit for its intended use;

(7) The plant operator or emergency coordinator shall notify the Department and appropriate local authorities when operations in the affected areas of the facility have returned to normal; and

(8) Within 15 days after the incident, the plant operator or emergency coordinator shall submit a written report on the incident to the Department. The report shall include, but not be limited to:

(i) The name, address and telephone number of the facility;

(ii) The date, time and description of the incident;

(iii) The extent of injuries, if applicable, with names and responsibilities indicated;

(iv) An assessment of actual damage to the environment, if applicable;

(v) An assessment of the scope and magnitude of the incident;

(vi) A description of the immediate actions that have been initiated to clean up the affected area and prevent a recurrence of a similar incident; and

(vii) An implementation schedule for undertaking measures to effect cleanup and avoid recurrence of the incident, if applicable.

End of Section II

Section III - Specific Conditions Applicable to the Facility

1. Permitted Waste Types

The permittee is authorized to accept the following waste types as defined at N.J.A.C. 7:26-2.13(g):

ID	Description
10	Municipal waste (household, commercial and institutional)
13	Bulky waste (except for non-combustible materials such as major motor vehicle parts, large household appliances and combustible items that exceed six (6) feet in any one dimension)
23	Vegetative waste
25	Animal and food processing waste (specifically food processing waste)

The permittee is not authorized to accept any other type or description of solid waste as defined at N.J.A.C. 7:26-2.13(g) and (h), regulated medical waste as defined at N.J.A.C. 7:26-3A.6(a), or hazardous waste as defined at N.J.A.C. 7:26G-1 *et seq*.

2. Approved Designs, Plans and Reports

(a) The permittee shall operate the facility, and construct or install associated appurtenances thereto, in accordance with the provisions of N.J.A.C. 7:26-1 *et seq.*, the conditions of this permit, and the following permit application documents which are incorporated herein by reference:

(1) "Executive Summary Submittal for the Gloucester County Resource Recovery Facility Registration Statement to the State of New Jersey, Department of Environmental Protection, Division of Waste Management," November 27, 1985, prepared by Signal Environmental Systems, Inc.,

(2) "Environmental and Health Impact Statement for the Proposed Gloucester County Resource Recovery Facility - Volume I", November 27, 1985, prepared by Signal Environmental Systems, Inc.

(3) "Environmental and Health Impact Statement for the Proposed Gloucester. County Resource Recovery Facility, Appendix to Volume I (1 of 2)", November 27, 1985, prepared by Signal Environmental Systems, Inc.

(4) "Environmental and Health Impact Statement for the Proposed, Gloucester County Resource Recovery Facility, Appendix to Volume I (2 of 2)", November 27, 1985, prepared by Signal Environmental Systems, Inc.

(5) "Engineering Design for the Proposed Gloucester County Resource Recovery Facility Volume II", November 27, 1985, prepared by Signal Environmental Systems, Inc.

(6) "Attachment A - Index To EHIS Review Comment Responses, Gloucester County Waste-To-Energy Facility", December 6,1985, prepared by Signal Environmental Systems, Inc.

(7) "Amendments to the Environmental and Health Impact Statement", dated March 3, 1986; prepared by ERT, Inc. and submitted for Signal Environmental Systems, Inc.

(8) "Review Comment Response Document to the Environmental and Health Impact Statement - New Jersey Department of Environmental Protection for the Gloucester County, New Jersey Resource Recovery Facility - Volume 1 of 2", dated July 29, 1986, prepared by ERT, Inc. and submitted by Signal Environmental Systems, Inc.

(9) "Review Comment Response Document to the Environmental and Health Impact Statement - New Jersey Department of Environmental Protection for the Gloucester County, New Jersey Resource Recovery Facility - Volume 2 of 2", dated July 29, 1986, prepared by ERT, Inc. and submitted by Signal Environmental Systems, Inc.

(10) "Environmental Analysis of Proposed SES Gloucester Access Roadway, West Deptford, New Jersey for the Gloucester County, New Jersey Resource Recovery Facility", dated September 11, 1986, prepared by ERT, Inc. and submitted on behalf of Signal Environmental Systems, Inc.

(11) "Site Photographs for Proposed Gloucester Waste-To-Energy Facility, West Deptford, New Jersey", dated September 11, 1986, prepared by ERT, Inc. and submitted on behalf of Signal Environmental Systems, Inc.

(12) "316(a) and (b) Demonstration for the SES Gloucester Waste-To-Energy Facility in West Deptford, New Jersey", dated September 11, .1986, prepared by ERT, Inc, and submitted on behalf of Signal Environmental Systems, Inc.

(13) "SES Gloucester Site Characterization Studies", dated October 24, 1986, prepared and submitted by ERT, Inc. on behalf of Signal Environmental Systems, Inc.

(14) "Appendix F Sampling Plan for Additional Investigation of SES Gloucester Waste-To-Energy Facility", dated November 20, 1986, prepared and submitted by ERT, Inc., on behalf of Signal Environmental Systems, Inc.

(15) "Environmental Investigation for the Proposed Gloucester County Waste-To-Energy Facility", dated December 19, 1986, prepared by ERT, Inc. and submitted by Signal Environmental Systems, Inc.

(16) "Revisions to the Environmental Investigation for the Proposed Gloucester County Waste-To-Energy Facility (December 28, 1986)", dated January 28, 1987, prepared and submitted by ERT, Inc. for Signal Environmental Systems, Inc.

(17) "Supplemental Responses to Bureau of, Resource Recovery Comments for the SES Gloucester Resource Recovery Facility", dated March 3, 1987, prepared by ERT, Inc. and submitted by Signal Environmental Systems, Inc.

(18) "Gloucester County Resource Recovery Facility Specifications - Volume I", dated March 3, 1987, submitted by RUST International Corporation Environmental Systems, Inc.

(19) "Gloucester County Resource Recovery Facility: Equipment Specifications - Volume 2", dated March 3, 1987, prepared and submitted by RUST International Corporation for Signal Environmental Systems, Inc.

(20) "Gloucester County Resource Recovery Facility: Preliminary Draft Operations and Maintenance Manual", dated March 3, 1987, prepared and submitted by RUST International Corporation for Signal Environmental Systems, Inc.

(21) The following drawings prepared by RUST International Corporation sealed and signed by James E. Davis, N.J.P.E. License No. GE 29677, prepared September 5, 1986 and submitted on March 10, 1987:

(i) 01-32-C107 - Sediment and Erosion Control Details - Rev. B

(ii) 01-32-C108 - Site Improvement Details - Rev. D

(iii) 01-32-C109 - Detention Pond Outlet Structure - Rev. C

(iv) 01-32-C115 - Roadway Crossing-Cross Sections - Rev. C

(v) 01-32-C118 - Site Improvement Details - Rev B

(vi) 01-32-C119 - Site Improvement Details - Rev. B

(vii) 01-32-C127 - Vicinity Map - Rev. A

(22) The following drawings prepared by RUST International Corporation, sealed and signed by Durwood J. Golden, Registered Architect, N.J. License No. 0883,4,, prepared November 11, 1986 and submitted on March 10, 1987:

(i) 01-24-101P - Site Line Study - Rev. A

(ii) 01-24-102P - Landscape Plan Sheet 1 - Rev. A

(iii) 03-24-101P - North and South Elevation - Rev. A

(iv) 03-24-102P - East and West Elevation - Rev. A

(23) The following drawings prepared by RUST, International Corporation, sealed and signed by Grady I. Fox, N.J.P.E. License , No. 30937, prepared February 27, 1987 and submitted on March 10, 1987:

(i) 03-26-100P - Refuse Boiler Combustion Control Logic Sheet 1 - Rev. A

(ii) 03-26-101P - Refuse Boiler Combustion Control Logic Sheet 2 - Rev. A

(iii) 03-26-102P - P & I Symbols and Identification - Rev. A

(iv) 10-49-002P - Main Single Line Diagram - Rev. A

(24) The following drawings prepared by RUST International Corporation, sealed and signed by John S. Hall, N.J.P.E. License No. 31324, prepared December 9, 1986 and submitted on March 10, 1987:

(i) 03-48-002A-P - Fly Ash Handling system Boiler No. 1 - Rev. A

(ii) 03-48-002B-P - Fly Ash Handling System Boiler No. 2 - Rev. A

(25) The following drawings prepared by RUST International Corporation, sealed and signed by J.B. Upchurch, N.J.P.E. License No. 31355, prepared December 4, 1986 and submitted on March 10, 1987:

(i) 07-47-132P - Boiler #1 and 2 Feed Chute Cooling Water - Rev. A

(26) The following drawings prepared by RUST International Corporation, sealed and signed by Steven D. Wilson, N.J.P.E. License No. 31063, prepared December 1986 and submitted on March 10,.1987:

(i) 03-49-005A-P - Combustion Air and Flue Gas - Rev. A

(ii) 10-49-006P - Generator Trip/Start-Up Condensate. & Make-Up Control - Rev. A

(27) "Addendum to Supplemental Response to Bureau of Resource Recovery Comments Document for the SES Gloucester Resource Recovery Facility", dated March 18, 1987, prepared and submitted by Signal Environmental Systems, Inc.

(28) "Addendum to Supplemental Responses to Bureau of Resource Recovery Comments Document for the SES Gloucester Resource Recovery Facility", dated May 8, 1987, prepared and submitted by Signal Environmental Systems,

Inc.

(29) "Revisions to Volume II Equipment Specifications for the Gloucester County Resource Recovery Facility", dated May 12, 1987, prepared and submitted by RUST International Corporation for Signal Environmental Systems, Inc.

(30) The following drawings prepared by RUST International Corporation, sealed and signed by James E. Davis, N.J.P.E. License No. GE29677, revised May 7, 1987 and submitted May 19, 1987:

(i) 01-32-C102 - Site Grading and Drainage Plan Sheet 1 of 2 - Rev. F

(ii) 01-32-C104 - Entrance Road Profile - Rev. E

(iii) 01-32-C105 - Sedimentation and Erosion Control Plan Sheet 1 of 2 - Rev. F

(iv) 01-32-C106 - Sedimentation and Erosion Control Plan Sheet 2 of 2 - Rev. D

(v) 01-32-C113 - Roadway Crossing Plan and Profile - Rev. F

(vi) 01-32-C114 - Roadway Crossing Cross-Sections - Rev. D

(vii) 01-32-C126- Key Map - Rev. B

(31) The following drawing prepared by RUST International Corporation, sealed and signed by Durwood J. Golden, Registered Architect, N.J. License No. 08834, revised April 30, 1987 and submitted May 19, 1987:

(i) 03-24-103P - South Elevation Ash Storage Building - Rev. B

(32) The following drawings prepared by RUST International Corporation, sealed and signed by Ralph E. Johnston, N.J.P.E. License No. 31949, prepared May 5, 1987 and submitted May 19, 1987:

(i) 03-27-011P - Solid Waste Facility Ground Floor Plan - Rev. B

(ii) 03-27-002P - Solid Waste Facility Operating Floor Plan - Rev. B

(iii) 03-27-003P - Solid Waste Facility Feeder and Charging Floors - Rev. B

(iv) 03-27-005P - Solid Waste Facility Section "B-B" - Rev. B

(v) 03-27-006P - Solid Waste Facility Longitudinal Section "C-C" and "D-D" - Rev. B

(33) The following drawings prepared by RUST International Corporation, sealed

and signed by John S. Hall, N.J.P.E. License No. 31324, revised May 11, 1987 and submitted May 19, 1987:

(i) 02-48-001P - Refuse Receiving, and Handling Flow Diagram - Rev. B

(ii) 03-48-001A-P - Bottom Ash Handling System Boiler #2 Flow Diagram - Rev. B

(iii) 03-48-001B-P - Bottom Ash Handling System Boiler #1 Floor Diagram - Rev. B

(iv) 03-48-003P - Ash Handling System At Truck Loading Building Flow Diagram - Rev. B

(34) The following drawings prepared by RUST International Corporation, sealed and signed by J. B. Upchurch, N. J. P. E. License No. 31355, revised May 8, 1987 and submitted May 19, 1987:

(i) 03-47-002P - Demineralized Water Flow Diagram - Rev. B

(ii) 03-47-003P - Demineralized Water Tank and Regenerant Chemicals - Rev. B

(iii) 03-47-004P - Boiler Chemical Additives and Sample Station Flow Diagram - Rev. B

(iv) 03-47-005P - Wastewater Treatment Flow Diagram - Rev. B

(v) 01-47-003P - Fire Water Tank and City Water Distribution Flow Sheet - Rev. B

(35) The following drawings prepared by RUST International Corporation, sealed and signed by Steven D. Wilson, N.J.P.E. License No. 31063, revised May 11, 1987 and submitted May 19, 1987:

(i) 03-49-002A-P - Energy/Mass Balance Diagram - Rev. B

(ii) 03-49-003A-P - Steam Generation Flow Diagram - Rev. B

(iii) 03-49-004P - Boiler Feedwater Flow Diagram - Rev. B

(iv) 03-49-006P - Steam Distribution Flow Diagram - Rev. B

(v) 03-49-008A-P - Boiler Drains and Vents Flow Diagram - Rev. B

(vi) 03-49-009P - Boiler Blow Down and Drains - Rev. B

(vii) 03-49-010P - Process Condensate Flow Diagram - Rev. B

(viii) 10-49-001P - Turbine Flow Diagram - Rev. B

(ix) 10-49-003P - Turbine Condensate Flow Diagram - Rev. B

(x) 10-49-004P - Turbine Generator Coolers Flow Diagram - Rev. B

(36) The following drawings prepared by RUST International Corporation, sealed and. signed. by James E. Davis, N.J.P.E. License No. GE29677, revised June 3, 1987 and submitted June 4,.1987:

(i) 01-32-C110 - Cooling water Piping - Rev. H

(ii) 01-32-C111 - Cooling Water Piping Profile - Rev. F

(iii) 01-32-C112 - Stormwater Management Plan - Rev. G

(iv) 01-32-C117 - Site Improvement Details - Rev. F

(v) 01-32-C120 - Layout Plan Sheet 1 of 2 - Rev. G

(vi) 01-32-C122 - Corps of Engineers Wetland Boundary - Rev. H

(vii) 01-32-C123 - Construction Parking and Fencing - Rev. B

(37) Revised Standard Application Form (CP #1), Construction and Discharge Permits for the SES Gloucester County Resource Recovery Facility, dated June 8, 1987 and submitted on June 9, 1987 by SES Gloucester Company, L.P.

(38) Supplemental Traffic Considerations for the SES Gloucester Resource Recovery Facility, dated June 1987 and submitted on June 24, 1987 by ERT for Signal Environmental Systems, Inc. (Document No. PD734-680A).

(39) Letter of Transmittal from Gary L. Simpson, Esq., Coastal Eagle Point Oil Company to Thomas M. White, P.E., Signal Environmental Systems, Inc. regarding the Coastal Eagle Point Oil Company/Signal Environmental Systems, Inc. Water and Wastewater Agreements dated July 6, 1987.

(40) The following drawing prepared by RUST, International Corporation, sealed and signed by Ralph E. Johnston, N.J.P.E. License No. 31959, prepared January 13, 1988 and submitted on January 27, 1988:

(i) 11-32-021 - Sanitary Sewer Details - Rev. D

(41) The following drawing prepared by RUST International Corporation, sealed and signed by Ralph E. Johnston, N.J.P.E. License No. 31959, prepared March 1, 1988 and submitted on March 8, 1988:

(i) 03-27-004-P - Solid Waste Longitudinal Section "A-A" - Rev C

(42) The following drawing prepared by RUST International Corporation, sealed and signed by Grady I. Fox, N.J.P.E. License No. 30937, prepared May 17, 1988 and submitted on May 19, 1988:

(i) 10-49-002-P - Main Single Line Diagram - Rev. B

(43) The following drawings prepared by RUST International Corporation, sealed and signed by Daniel M. Hofer, N.J.P.E. License No. GE32279, prepared June 10 1988 and submitted on July 21,1988:

(i) 01-2 7-001 - Refuse Fired Boiler Composite Site Plan - Rev. A

(ii) 03-27-313 - Refuse Fired Boiler-Section "A-A" - Rev. A

(iii) 03-27-314 - Refuse Fired Boiler Refuse Boiler Operating Floor Plan at EL. 121’0” - Rev. A

(iv) 10-27-111 - Refuse Fired Boiler Power Generation - Operating Floor Plan at EL. 121’0” - Rev. A

(44) The following drawings prepared by RUST International Corporation, sealed and signed by Durwood J. Golden, Registered Architect, N.J. License No 08834, prepared August 8, 1988 and submitted on August 10, 1988:

(i) 03-24-106 - Solid Waste Facility - West Elevation - Rev. A

(ii) 03-24-107 - Solid Waste Facility - East Elevation - Rev. A

(45) The following drawing prepared by RUST International Corporation, sealed and signed by James E. Davis, N.J.P.E. License No. GE 29677, prepared July, 1988 and submitted on September 23, 1988:

(i) 01-32-C-116 - Cooling Water Piping Details - Rev. G

(46) The following drawing prepared by RUST International Corporation, sealed and signed by Daniel M. Hofer, N.J.P.E. License No. GE 32279, prepared March 6, 1989 and submitted on March 8, 1989:

(i) 03-27-329 - Refuse Fired Boiler - Ash Discharge and Receiving Plan at EL. 121'0" - Rev. 5

(47) "Revised Traffic Considerations for the SES Gloucester County Resource Recovery Facility", dated April 1, 1989 and submitted on May 5, 1989 by SES Gloucester Company, L.P.

(48) The following drawing prepared by RUST International Corporation, sealed and signed by, Daniel M. Hofer, N.J.P.E. License No. GE 32279, prepared June 13, 1989 and submitted on June 15, 1989:

(i) 03-27-315P - Refuse Fired Boiler - Ram Feeder Floor Plan at EL. 134'0" - Rev. A

(49) The following drawings prepared by RUST International Corporation, sealed and signed by Ralph E. Johnston, N.J.P.E. License No. 31959, prepared April 7, 1989 and submitted on July 20, 1989:

(i) 01-32-103 - Plant Layout Plan - Rev. 6

(ii) 01-32-117 - Erosion and Sedimentation Control Drawing: Sheet 1 of 2 - Rev. 2

(iii) 01-32-118 - Erosion and Sedimentation Control Drawing: Sheet 2 of 2 - Rev. 3

(iv) 01-32-119 - Erosion and Sedimentation Control Details - Rev. 1

(50) The following drawings prepared by RUST International Corporation, sealed and signed by Henry F. Brown, N.J.P.E. License No. GE 33784, prepared October 13, 1989 and submitted on October 16, 1989:

(i) 03-28-044 - Ash Immobilization - Piping Plan Sections and Details - Rev. 1

(ii) 03-28-100 - Boiler No. 1: P&I Diagram Steam Generation - Rev. 1

(iii) 03-28-101 - Boiler No. 2: P&I Diagram Steam Generation - Rev. 1

(iv) 03-28-102 - Boiler No. 1 P&I Diagram Combustion Air & Flue Gas - Rev. 0

(v) 03-28-103 - Boiler No. 2 P&I Diagram - Combustion Air & Flue Gas - Rev. 0

(vi) 03-28-104 - Boiler Feedwater P&I Diagram - Deaerator & Storage Tank - Rev. 0

(vii) 03-28-105 - Boilers No. 1 and No. 2: P&I Diagram - Steam Distribution - Rev. 0

(viii) 03-28-107 - Boiler No. 1 and No. 2 P&I Diagram - Boiler Feedwater Pumps and Turbine - Rev. 1

(ix) 03-28-110 - Boiler No. 1 P&I Diagram - Drains, Vents, Drum and

Superheater - Rev. G

(x) 03-28-111 - Boiler No. 2 P&I Diagram - Drains, Vents, Drum and Superheater - Rev. 0

(xi) 03-28-117 - Control Room & Office - HVAC Services P&I Diagram - Rev. G

(xii) 03-28-118 - Blr. Turb. & Ash Handling Buildings HVAC Services - P&I Diagram - Rev. 0

(xiii) 03-28-119 - Air Pollution Control P&I Diagram - Stack and I.D Fans - Rev. 0

(xiv) 03-28-129 - Water Treatment P&I Diagram - Sample Cooler - Rev. 0

(xv) 03-28-131 - Water Treatment P&I Diagram Boiler Feedwater Chemicals - Rev. 1

(xvi) 03-28-132 - Boiler No. 1 and No. 2 P&I Diagram - Feed Chute Cooling Water - Rev. 1

(xvii) 03-28-148 - Potable Water Treatment P&I Diagram - Rev. 2

(xviii) 03-28-150 - Fire Tank & Fire Water-Dist. P&I Diagram - Rev. 2

(xix) 10-28-140 - Turbine & Generator P&I Diagram - Rev. 0

(xx) 10-28-141 - Turbine/Generator Oil Conditioner System P& I Diagram - Rev. 0

(xxi) 10-28-144 - Turbine Generator P&I Diagram Turbine Condensate & Surface Condenser - Rev. 1

(xxii) 10-28-146 - River Water Intake P&I Diagram - Rev. 1

(xxiii) 10-28-147 - Turbine - Generator P&I diagram - By-Pass Condenser - Rev. 1

(xxiv) 50-28-100 - Standard P&I Symbology - Rev. 0

(51) The following drawings prepared 'by RUST International Corporation, sealed and signed by Ralph E. Johnston, N.J.P.E. License No. 31959, prepared August 17, 1989 and submitted on October 16, 1989:

(i) 10-29-205 - River Pumping Station Plan. - Rev. 4

(ii) 10-29-206 - River Pumping Station (Sheet 1): Pump Pit Sections and

Details - Rev. 1

(iii) 10-29-208 - River Pumping Station (Sheet 2): .Pump Pit Sections and Details - Rev. 0

(iv) 10-29-209 - River Pumping Station (Sheet 3):Pump Pit Sections and Details - Rev. 1

(v) 01-32- 101 - Plot Plan - Rev. 2

(52) The following drawings prepared by RUST International Corporation, sealed and signed by Daniel M. Hofer, N.J.P.E. License No. GE 32279, prepared July 24, 1989 and submitted on October 16, 1989:

(i) 03-27-304 - Refuse Fired Boiler - River Water Pump House - Rev. 3

(ii) 03-27-315 - Refuse Fired Boiler: Refuse Boiler - Ram Feeder Floor Plan at EL. 134'0" - Rev. 3

(iii) 03-27-318 - Refuse Fired Boiler: Refuse Boiler - Charging Plan at EL. 163'0" - Rev. 1

(53) The following drawings prepared by RUST International Corporation, sealed and signed by Durwood J. Golden, Registered Architect, N.J. License No. 08834, prepared October 5, 1989 and submitted on October 16, 1989:

(i) 03-24-100 - Solid Waste Facility Ground Floor Plan: EL. 100'0" - Rev. 7

(ii) 03-24-101 - Solid Waste Facility Floor Plans: EL. 121'0" & EL.134'0" - Rev. 8

(iii) 03-24-103 - Solid Waste Facility Enlarged Floor Plans: EL.100'/114', 121' and 134' - Rev. 10

(iv) 03-24-108 - Solid Waste Facility: South Elevation - Rev. 5

(v) 03-24-109 - Solid Waste Facility: North Elevation - Rev. 3

(54) The following drawing prepared by RUST International corporation, sealed and signed by Ralph E Johnston, N.J.P.E. License No. 31959, prepared November 2, 1989 and submitted on November 11, 1989:

(i) 01-32-132 - Temporary Intake Lines - Rev. 1

(55) The following drawing prepared by RUST International Corporation, sealed and signed by Daniel M. Hofer, N.J.P.E. License No. GE 32279, prepared, July 21, 1989 and submitted on December 13,1989:

(i) 03-27-324 - Refuse Fired Boiler Section "B-B" - Rev. 7

(56) "NJDEPE Solid Waste Permit Renewal Application Wheelabrator Gloucester Company,, L. P.", dated September 15, 1992, prepared by Environmental Resources Management, Inc., Ewing, New Jersey.

(57) Addendum documents for incorporation within the permit renewal application that was hand delivered to Mr. Joseph Staab, Bureau of Resource Recovery on October 19, 1992.

(58) Letter dated November 3, 1994 from Linwood L. Bubar, Jr., Plant Manager, Wheelabrator Gloucester Company, L.P., to Robert Ciolek, Division of Solid and Hazardous Waste, transmitting responses to the Bureau NOD dated September 6, 1994 and addressing comments No. 1, 2b, 3, 6, 11, 12d and 16.

(59) Letter dated December 2, 1994 from Linwood L. Bubar, Jr., Plant Manager, Wheelabrator Gloucester Company, L.P., to Robert Ciolek, Division of Solid and Hazardous Waste, transmitting responses to the Bureau NOD dated September 6, 1994 and addressing comments No. 2c, 2d, 4, 7 and 12a. The submission includes the following engineering design drawings prepared by Long-Architecture, Engineering & Land Surveying, sealed and signed by Douglas R. Long, N.J.P.E. License No. 16341:

(i) 03-31-114 - Refuse I Boiler - HVAC Fan Plan, dated November 28, 1994

(ii) 19911-lL - Ash Loadout Building Baghouse System, dated November 17, 1994

(60) Letter dated January 9, 1995 from Linwood L. Bubar, Jr., Plant Manager, Wheelabrator Gloucester Company, L.P., to Robert Ciolek, Division of Solid and Hazardous Waste, transmitting responses to the Bureau NOD dated September 6, 1994 and addressing comments No. 8, 9 and 14.

(61) Letter dated February 1, 1995 from Linwood L. Bubar, Jr., Plant Manager, Wheelabrator Gloucester Company, L.P., to Robert Ciolek, Division of Solid and Hazardous Waste, transmitting responses to the Bureau NOD, dated September 6, 1994 and addressing comment No. 10.

(62) Letter dated March 15, 1995 from Linwood L. Bubar, Jr., Plant Manager, Wheelabrator Gloucester Company, L.P., to Robert Ciolek, Division of Solid and Hazardous Waste, transmitting responses to the Bureau NOD dated September 6, 1994 and addressing comments No. 5, 12b, 12c and. 13. The submission includes the following engineering design drawings prepared and revised by Long-Architecture, Engineering & Land Surveying, sealed and signed by Douglas R. Long, N. J. P. E. License No. 16341:

(i) 20006-L - Ash Storage Facility, dated February 28, 1995

(ii) 11-32-020 - Sanitary Sewer Plan and Profile Updated Survey, dated February 15, 1995

(iii) 01-32-C103 - Site Grading & Drainage Plan, Sheet 2 of 2 Updated Survey, dated February 15, 1995

(iv) 01-24-103P - Landscape Plan - Updated Survey, dated February 15, 1995

(63) Letter dated April 21, 1995 from Linwood L. Bubar, Jr., Plant Manager, Wheelabrator Gloucester Company, L.P., to Robert Ciolek, Division of Solid and Hazardous Waste, transmitting responses to the Bureau NOD dated September 6, 1994 and addressing comment No. 15. The submission includes the following engineering design drawings, revised by Long-Architecture, Engineering & Land Surveying, sealed and signed by Douglas R. Long, N.J.P.E. License No. 16341 on April 18, 1995:

(i) 05-28-153 - Ash Immobilization P&I Diagram - Rev. 3

(ii) 03-27-006 - Ash Handling System at Truck Loading Building, Flow Diagram - Rev. 2

(64) Letter dated May 11, 1995 from Linwood L. Bubar, Jr., Plant Manager, Wheelabrator Gloucester Company, L.P., to Robert Ciolek, Division of Solid and Hazardous Waste, transmitting responses to the Bureau NOD dated April 13, 1995 and addressing comments No. 1, 2b, 2c, 3, 10, 12b, 13, 14' and 15. The submission includes the following engineering design drawings prepared and revised by Long-Architecture, Engineering & Land Surveying, sealed and signed by Douglas R. Long, N.J.P.E. License No. 16341:

(i) 03-28-112 - Boilers No. 1 & No. 2 P&I Diagram - Cont. Blowdn. & Blr, Drn. Tks. - Rev. G, dated October 13, 1989

(ii) 03-28-133 - Water Treatment P&I Diagram - Chemical Feed. - Rev. 2, dated October 13, 1989

(iii) 03-28-151 - Boiler Water Treatment P&I Diagram - Demineralized Water Tank - Rev. 1, dated October 13,1989

(iv) 03-31-105 - Refuse Fired Boiler Floor Plan Elevation 121'0" HVAC - Enlarged Plan - Rev. 3, dated April 21, 1995

(v) 20052-L - Floor Repair or Replacement, Sheet 1 of 3, dated April 14, 1995

(vi) 20052-L - Plan of Existing Conditions, Sheet 2 of 3, dated April 14,

1995

(vii) 20052-L - Details of Existing Condition, Sheet 3 of 3, dated April 14, 1995

(65) Letter dated July 20, 1995 from Linwood L. Bubar, Jr., Plant Manager, Wheelabrator Gloucester Company, L.P., to Robert Ciolek, Division of Solid and Hazardous Waste, transmitting responses to the Bureau NOD dated June 29, 1995 and addressing comments No. 2b, 3, 10, 12b, and 13. The submission includes the following engineering design drawings revised by Long-Architecture, Engineering & Land surveying, sealed and signed by Douglas R. Long, N.J.P.E. License No. 16341, dated July 14, 1995:

(i) 03-28-152 - Wastewater Treatment P&I Diagram - Wastewater Storage - Rev. 3

(66) Letter dated October 2, 1995, from Linwood L. Bubar, Jr,. Plant Manager, Wheelabrator Gloucester Company, L.P., to John Bielamowicz, Division of Solid and Hazardous Waste, including the following engineering design drawings:

(i) 20221-XL - Sheet 1 of 2 "Carbon Dosing System/Site Plan Building Electrical", Rev. A., dated September 11, 1995, signed and sealed by Douglas R. Long, N.J.P.E. License No. 16341

(ii) 20221-XL - Sheet 2 of 2 "Carbon Dosing System/Plan Sections Details", Rev. A, dated September 11, .1995, signed and sealed by Douglas R. Long, N.J.P.E. License No. 16341

(iii) 20221-XL - Sheet 1 of 1 "Carbon Dosing System Piping/Plan Sections Details", dated August 21, 1995, signed and sealed by Douglas R. Long, N.J.P.E. License No. 16341

(iv) 4205-LA-03 - "Porta-Pac Dosing System - Pneumatic" (Norit Americas Inc.), dated August 15, 1995, signed and sealed by Ralph B. Masino, N.J.P.E. License No. 16350 (signed September 28, 1995)

(v) 4205-LA-02 - "Porta-Pac Dosing System - Upper Section Framework" - (Norit, Americas Inc.), dated .August 15, 1995, signed and sealed by Ralph B. Masino, N.J.P.E. License No. 16350 (signed September 28, 1995)

(vi) 4205-LA-01 - "Porta-Pac Dosing System - Lower Section Framework" - (Norit Americas Inc.), dated August 15, 1995, signed and sealed by Ralph B. Masino, N.J.P.E. License No. 16350 (signed September 28, 1995)

(67) Facsimile dated October 31, 1995 from Linwood L. Bubar, Jr., Plant Manager,

Wheelabrator Gloucester Company, L.P., to Joseph Staab, Division of Solid and Hazardous Waste, providing additional information concerning the non-contact cooling water system.

(68) Letter dated May 15, 1996 from Linwood L. Bubar, Jr., Plant Manager, Wheelabrator Gloucester Company, L.P., to John Bielamowicz, Division of Solid and Hazardous Waste concerning staging of waste on the tipping floor.

(69) Letter dated July 19, 1996 from Linwood L. Bubar, Jr., Plant Manager, Wheelabrator Gloucester Company, L.P., to Sukhdev Bhalla, Division of Solid and Hazardous Waste providing two (2) sketches of the tipping floor.

(70) Drawing submitted in compliance of the Department's conditioned approval for limited use of the facility tipping hall for the temporary storage of waste, dated 9/17/96 and prepared, signed and sealed by Douglas R. Long, P.E.:

(i) 01-24-204 - Tipping Floor Temporary Storage Area Drawing No. L

(71) "Solid Waste Facility Permit Modification Application For Installation of Selective Non-Catalytic Reduction for NO_x Control", dated September 26, 2000 and "Revisions to the Modification Application", dated March 4, 2001, including the following engineering drawings revised 11/01/00 and signed and sealed by Thomas M. White P.E.:

(i) 03-49-002B-P - Energy/Mass Balance Diagram - Rev. D

(ii) 03-28-113 - Instrument & Plant Air, Process & Potable Water Service P&I Diagram - Rev. 1

(iii) 03-28-130 - Auxiliary Cooling Water P&I Diagram Component Cooling Water Dist. - Rev. 1

(iv) 03-28-149 - Process Water Treatment P&I Diagram - Rev. 4

(v) 03-47-001-P - Air Pollution Control Flow Diagram - Rev. C

(vi) 07-47-104-P - Water Treatment River Intake and Condenser Water Supply Flow Diagram - Rev. C

(vii) 03-28-109 - P&I Diagram Air Compressors & Dryers - Rev. 1

(viii) 03-28-302 - Piping and Equipment Arrangement - Rev. 1

(ix) 03-29-303 - Equipment Arrangement at Elevation 150’ - Rev 1

(72) Solid Waste Facility Permit Modification Application for Economizer Hopper Modification dated May 2, 2001, supplemental information to support the application dated October 4, 2001 and the following design drawings

submitted on February 13, 2002 with revisions dated 2/4/02, signed and sealed by Douglas R. Long, P.E.:

(i) 03-27-002 - Bottom Ash Handling System Boiler No. 1 Flow Diagram - Rev. 3

(ii) 03-27-003 - Bottom Ash Handling System Boiler No. 2 Flow Diagram - Rev. 3

(iii) 03-27-004 - Fly Ash Handling System Boiler No. 1 Flow Diagram - Rev. 3

(iv) 03-27-005 - Fly Ash Handling System Boiler No. 2 Flow Diagram - Rev. 3

(v) 03-27-323 - Refuse Fired Boiler Section "A-A" - Rev. 4

(73) "Wheelabrator Gloucester Company, L.P. Solid Waste Facility Permit Renewal Application Facility Number: 0820000394 Submitted November 22, 2000" Volumes 1 of 2 and 2 of 2 submitted under cover dated November 22, 2000 prepared by Wheelabrator Gloucester Company, L.P.

(74) "Wheelabrator Gloucester Company, L.P. Solid Waste Facility Permit Renewal Application Facility Number: 0820000394 Additional Information Submitted February 28, 2001" Volumes 1 of 2 and 2 of 2 submitted under cover dated March 2, 2001 and prepared by Wheelabrator Gloucester Company, L.P.

(75) Letter dated November 21, 2001 from Robert Rowe of Wheelabrator Gloucester Company, L.P. to Robert Confer, Bureau of Resource Recovery and Technical Programs, Division of Solid and Hazardous Waste, transmitting responses to the Bureau NOD dated August 27, 2001.

(76) "Wheelabrator Gloucester Company, L.P. Operations and Maintenance Manual," last revised May 2002.

(i) Volume I, II and III: Operations Manual - System Description

(ii) Volume I, II and III: Operations Manual - Operating Procedures

(iii) Environmental Compliance Manual

(iv) Maintenance Manual

(v) Health, Safety, Environmental Protection and Loss Control Manual

In case of conflict, the most recent provisions of N.J.A.C. 7:26-1 *et seq.* shall have precedence over the conditions of this permit, the conditions of this permit shall have

precedence over the SWF permit application documents listed above, and the most recent revisions and supplemental information approved by the Department shall prevail over prior submittals and designs.

(b) One complete set of the permit application documents listed in condition 2(a) of this section above, this Solid Waste Facility Permit, and all records, reports and plans as may be required pursuant to this permit shall be kept on-site and shall be available for inspection by authorized representatives of the Department upon presentation of credentials.

3. Approved Operations

(a) Facility Staffing and Training

In addition to the requirements of conditions 2(r) and 2(s) of Section II of this permit, the permittee shall also comply with all applicable Federal requirements pertaining to facility staffing and training, including the following:

(1) The permittee shall not allow the facility to be operated at any time unless one of the following persons is on duty: a fully certified chief facility operator, or a fully certified shift supervisor. If one of the persons listed above must leave the facility during their operating shift, a provisionally certified control room operator who is on duty may fulfill the requirement in this paragraph.

(2) Each chief facility operator and shift supervisor at the facility shall have completed full certification in accordance with the American Society of Mechanical Engineers QRO-1-1994, Standard for Qualification and Certification of Resource Recovery Facility Operators.

(3) Each chief facility operator, shift supervisor, and control room operator must complete the EPA municipal waste combustor operator training course. This requirement does not apply to chief facility operators, shift supervisors, and control room operators who obtained full certification from the American Society of Mechanical Engineers on or before the effective date of the applicable Federal rules and regulations.

(4) The permittee shall review the facility's approved final operations and maintenance manual to ensure that all federally required elements for the "site-specific operating manual" are included. Should the approved facility final operations and maintenance manual need modification to comply with the federal rules and regulations, the permittee shall submit said modifications to the Department for review and approval, in accordance with condition number 1(a)(12) of Section II of this permit.

(5) As part of the planned annual review of the initial training program required by condition number 2(s)(5) of Section II of this permit, the permittee shall also ensure that review of the facility's approved final operations and maintenance manual is included in the program. Such training shall include each person who

has responsibilities affecting the operation of the facility, including, but not limited to, chief facility operators, shift supervisors, control room operators, ash residue handlers, maintenance personnel, and crane/load handlers.

(b) Recyclables

The permittee shall inspect each incoming waste load in accordance with the "Waste Control Inspection, and Recyclables Plan" included as part of the approved final operations and maintenance manual, to identify the incidence of designated recyclable materials mandated to be source separated by the District Recycling Plan applicable to the point of origin of the waste load. The permittee shall consult with each county recycling coordinator for the facility's service area on a quarterly basis to review those recyclable materials that are designated by each county to be source separated pursuant to N.J.S.A. 13:1E-99.13(b)2. The "Waste Control, Inspection, and Recyclables Plan" shall be updated accordingly. Should any designated recyclable materials be detected in a delivered waste load, the appropriate county recycling coordinator shall be notified in writing. The permittee shall maintain a copy of each such notification at the facility. Whenever possible, the generator who failed to source separate the recyclable materials shall also be identified and reported to the county recycling coordinator.

(c) Community Relations Plan

The Permittee shall implement the community relations plan, which identifies the steps to be taken to transfer information to, and solicit input from, the community in which the facility is located. The plan shall be maintained as a section of the approved final operations and maintenance manual

(d) Waste Delivery Schedule

(1) Waste shall be accepted for processing at the facility only in accordance with the following delivery schedule:

7:00 AM to 5:00 PM - Monday through Friday
8:00 AM to 12:00 PM - Saturday

(2) Waste deliveries to the facility shall be scheduled in such a manner as to minimize truck queuing on the facility property. Under no circumstance shall delivery trucks be allowed to back up onto public roads.

(e) Waste Delivery Haul Routes

The permittee shall post at the facility, and provide to all waste haulers using the facility, a copy of the designated primary refuse truck delivery routes from and to each collection area served by the facility as prescribed in the Gloucester County District Solid Waste Management Plan.

(f) On-Site Traffic Control

On-site traffic control measures shall be maintained to provide for orderly vehicular movement on the facility grounds. The measures implemented shall include the appropriate use of lane delineation, signals, signs, barriers or any combination thereof to ensure an orderly flow of traffic delivering waste to the facility through the scale to the tipping floor, then leaving the tipping floor and exiting the facility through the scale. Trucks carrying ash residue, recovered ferrous metals, unprocessible or bypass wastes from the facility shall be similarly controlled and directed to minimize interference with waste delivery traffic. All on-site roadways used by haulage vehicles shall be constructed in accordance with standards established for heavy truck usage, and shall be maintained in accordance with these standards.

(g) Waste Acceptance and Processing Rates

(1) Waste shall not be deposited beyond the confines of the refuse pit, except for the purpose of conducting incoming waste load inspections, staging waste for the purpose of removing metals and/or oversize bulky waste, and holding unauthorized materials or storing unprocessible materials such as oversize bulky waste, or unless otherwise approved by the Department. Staging of solid waste for the purpose of removing metals and/or oversize bulky waste shall be conducted within portions of tipping bays 1 & 4, as delineated on drawing 01-24-204 - "Tipping Floor Temporary Storage Area", dated September 17, 1996. An outline depicting this staging area shall be maintained on the tipping floor, corresponding to an area of approximately 1275 square feet per bay. This defined area shall only be used to stage solid wastes that contain metals and/or oversize bulky waste that requires removal from the processible waste before the material is deposited into the pit. The processible waste shall be removed from the staging area and deposited into the pit before the front-end loader operator leaves for the day.

(2) Further exception to this limitation is granted in the case of transfer trailer unloading operations within the tipping hall, where the nature of the operation requires trailer contents to be unloaded onto the tipping floor before the waste is moved into the pit by means of a front end loader. Under such circumstances, the unloading activity being conducted, and the waste staged temporarily on the tipping floor, shall not be allowed to restrict the fluid movement of other haulage vehicles into and out of the tipping hall.

(3) The facility shall not process waste in excess of 209,875 tons per reporting year as determined by means of the facility truck scale records, used in conjunction with a pit level determination made at the beginning of each reporting year to adjust for the storage differential. For the purposes of definition, the reporting period shall begin January 1 and end December 31 of the same year. The facility's rate at which it can process solid waste shall be further limited to a maximum steam production rate of 286,664 pounds per boiler (at a temperature of approximately 750 degrees F. and a pressure of approximately 660 psia) over any discrete four (4) hour block of time (i.e. 12-4 AM, 4-8 AM, 8-12 PM, etc.).

(h) Unauthorized Waste

(1) A program shall be maintained to detect and remove unauthorized and prohibited wastes from the waste stream entering the facility. This program shall include the recyclables inspection plan included in the approved final operations and maintenance manual, and at a minimum, shall also include the following steps:

(i) The permittee shall maintain a sign at or near the scale house which clearly indicates acceptable and prohibited waste types. The penalties for false certification and unauthorized waste delivery shall also be included on the sign.

(ii) Continuous visual monitoring of the incoming waste shall be conducted by both the tipping floor attendant and the crane operators. In addition, random inspections of incoming waste loads shall be conducted.

(iii) The crane operator and/or tipping floor attendant shall immediately notify the shift foreman or shift supervisor and plant security personnel, should suspect unacceptable waste be discovered. Unauthorized materials found by the visual inspection program shall not be charged to the feed hoppers; appropriate measures shall be taken to remove the materials safely from the refuse bunker.

(iv) In particular, the crane operators and the floor attendants should be trained to search for, identify and safely remove the following materials:

(A) Drums or other large metal, plastic or fiberboard containers with unknown contents
(B) Bulk sludge(s) or wet solids not characteristic to municipal solid waste
(C) Military ordnance or other explosives
(D) Large pressurized containers
(E) Any suspicious, enclosed package

(v) Any suspected hazardous waste, drums, or liquids found in a load accepted at the facility shall not be returned to the generator. Such materials shall be segregated and stored in a secure manner, and the discovery of any suspected hazardous wastes at the facility shall be immediately reported to the Department at 1-877-WARNDEP. The Permittee shall secure the name of the collector-hauler suspected of delivering hazardous waste to the facility and related information surrounding the incident, if available, and shall make this information known to the Department's enforcement personnel.

(i) Maintenance and Repair

(1) In addition to the requirements of condition 1(a)(6) of Section II of this permit, the permittee shall maintain an appropriate inventory of spare parts

and replacement equipment.

(2) A major malfunction is defined whereby a system control, an equipment malfunction, or a malfunction of any instrumentation used to monitor process operations for environmental effects occurs that could result in an impact adverse to the environment or public health and/or that also prevents the continual processing of waste in compliance with this permit. In the case of such a situation, the permittee shall undertake corrective actions immediately and shall notify the Department within the working day.

(3) Records of equipment inspection and maintenance shall be maintained centrally in the facility for a minimum of five (5) years from the date of inspection and/or repair.

(j) Housekeeping

(1) Routine housekeeping and maintenance procedures shall be implemented within the facility interior to prevent the excess accumulation of dust and debris, and to maintain general cleanliness in the working environment. The tipping floor shall be cleaned at least once daily. All paved areas on-site shall be swept routinely to minimize the accumulation of dirt and debris on the paved surfaces.

(2) All facility floor drains, traps, sumps or similar catchment basins shall be maintained free of obstructions to facilitate effluent drainage.

(3) Unprocessed waste feedstock and facility process waste residues shall be stored in containers as specified in the referenced engineering plans listed at Condition 2 of Section III.

(k) Building Exterior Facings and Landscaping

The exterior facings of all facility buildings or similar structures shall be maintained in a manner in keeping with the original design intent to enhance the appearance of the property. All vegetation planted as part of the landscaping plan shall be maintained and replaced as needed.

(l) Wastewater Disposal

Sanitary wastewater generated at the facility shall be directed to the Gloucester County Utilities Authority (GCUA) force main located along U.S. Route 130 across from Park Avenue in the Township of West Deptford for treatment at the GCUA wastewater treatment plant.

Process wastewater from facility operations is normally recycled and reused within the ash quench system and spray dryers/absorbers. However, during upset conditions requiring the discharge of process wastewater, this wastewater shall be directed to the GCUA sewer system in compliance with the requirements of the GCUA.

(m) Total Facility Outage

If a total facility outage occurs and is determined to be longer than 3 days, the permittee shall remove all waste in storage at the facility and dispose of it in a manner consistent with the Gloucester County District Solid Waste Management Plan as well as any amendment to or approved Administrative Actions concerning such plan, and in compliance with the solid waste regulations found at N.J.A.C. 7:26-1 *et seq.*

(n) Steam Condensing

The permittee shall take immediate' steps to reduce boiler steam load of the facility's approved overall rated steam production capacity should the facility experience operational loss of either one of its cooling water pumps used to withdraw water from the Delaware River for the purpose of condensing steam. Such reduction in operation shall ensure compliance with the conditions placed on the permittee by the facility's NJPDES Stormwater Discharge Permit Number NJ0067391.

(o) Turbine/Generator Trip Condition

The permittee shall ensure that during a turbine/generator trip condition, the boiler thermal load is reduced to an acceptable level (identified as approximately 70% of the total boiler load capacity) within the three minute response time as referenced in the Supplemental Response to the Bureau of Resource Recovery Comments Document (March, 1987) and further clarified in the Wheelabrator Gloucester Company, L.P. Operations Manual. The boiler thermal load reduction shall be to a level that ensures compliance with the conditions placed on the permittee by the facility's NJPDES Stormwater Discharge Permit Number NJ0062391.

Further, the permittee shall ensure that all waste processing operations affected by the turbine/generator trip condition are correspondingly reduced to reflect the reduction in the boiler thermal load. During a turbine/generator trip condition, the permittee shall ensure that all refuse delivery operations are adjusted to reflect the reduced operating capacity of the facility, should such outage be long-term in nature. If during this condition a redirection of solid waste refuse delivery vehicles is necessary due to the reduced operating capacity of the facility, the permittee, after consultation with the Gloucester County Planning Board and the Gloucester County Improvement Authority, shall notify all collectors/haulers of any redirection of solid waste to an alternate disposal site.

4. Residue Management

(a) Non-Processible, Process Residue and Recovered Ferrous Metals Handling and Storage

(1) All non-processible waste, recovered ferrous metals and process residues shall be stored within the confines of an enclosed facility building at all times prior to

removal from the site. Exterior storage of non-processible waste, recovered ferrous metals and process residues on the site is expressly prohibited.

(2) Storage of ash residue and recovered ferrous metals shall be restricted to the Ash Load-Out Building (during roll-off container loading and related staging activities) and the Ash Storage Building. (once roll-off loading has occurred, and prior to the materials removal from the site). Residue ash and recovered ferrous metals shall be loaded directly to roll-off containers by means of overhead conveyors in the Ash Load-Out Building. Loaded roll-off containers shall then be conveyed to the Ash Storage Building by means of a yard tractor (if not hauled out directly for landfill disposal), where the loaded roll-offs will remain prior to their removal from the site.

(3) Storage of unprocessible waste shall be in roll-off containers on the tipping floor. Roll-off containers shall not interfere with waste deliveries and unloading procedures.

(4) Overhead (roll-up) doors and personnel doors on the Ash Load-Out Building and the Ash Storage Building shall be closed in the event that airborne dust is observed during anytime of facility operations, and these doorways shall remain closed until such time that the fugitive dust condition subsides or is abated.

(b) Process Residue Disposal Approval

Throughout the effective term of this Permit, the following shall be implemented and maintained for facility operations:

(1) Copies of any new or renewed contracts executed in conformance with condition 2(f) of Section II of this permit with the owner(s) of landfills designated to receive bypass waste, non-processible waste, and non-hazardous ash residue, and the haulage firm(s) designated to handle said materials shall be submitted to the Department when executed.

(2) A contingency plan for the secure handling, storage, transport and disposal of ash residue that may be-found to be hazardous after analysis, and any suspect hazardous waste segregated from the incoming waste received at the facility.

(3) As part of the contingency plan, a formal contract shall be executed and maintained with a licensed hazardous waste disposal facility for the purpose of disposing any ash residue generated that may be proven hazardous after analysis, as well as any suspected hazardous waste that may be segregated from the incoming waste received at the facility. Copies of any new contracts shall be submitted to the Department when executed.

(4) The permittee shall maintain written procedures for the hazardous waste manifest program that will be followed, in accordance with Federal and State requirements. Ash residue and any unacceptable waste that may be found to be hazardous after analysis, shall be transported by a licensed hauler to the licensed

hazardous waste disposal facility retained by the permittee for that purpose.

(5) A finalized plan or program shall be maintained for the secured storage of ash residue, pending the receipt of the analytical results used in the classification of the residue for disposal, during any ash residue re-characterization analysis that may be required. If such storage cannot be accommodated and/or approved by the Department, residue generated during any such period shall be manifested and transported as hazardous waste and disposed of in accordance with its classification and the applicable laws in the State of disposal.

(c) Residual Ash Monitoring Program

(1) Material sampling methods, sample preservation requirements, sample handling times and decontamination procedures for field equipment shall conform to applicable industry methods as specified in the NJDEP "Field Sampling Procedures Manual." Other methods may be used on written approval from the Division of Solid and Hazardous Waste.

(2) As a minimum, the residual ash monitoring program shall consist of the following:

(i) Analyses shall be conducted in accordance with the following schedule:

	ANALYSIS:	
TIME PERIOD	Toxic Characteristic Leaching Procedure	Total Dioxins and Furans (EPA Method 1613B)
Confirmatory	Monthly	Any stack-testing event conducted for dioxins and furans
Re-Characterization	Weekly	N/A

(ii) During Confirmatory testing, the residual ash generated by the facility shall be sampled in accordance with the following protocol:

MONTHLY

One sample of sufficient size and of equal proportion shall be collected (as a minimum) every hour. All samples shall be collected from the ash residue conveyor after the ferrous recovery system, prior to being discharged into an awaiting roll-off container or truck. Samples shall contain both bottom and fly ash wastes in a mixed ratio representative of the ash residue slated for disposal. Daily composite samples shall be prepared by combining all samples collected during each day. The resulting daily composite samples shall be further combined into a monthly composite sample. A minimum of four (4) samples shall be taken from the composite for analyses.

STACK-TESTING EVENT

During any stack-testing event for dioxins, at least one sample of sufficient size and of equal proportion shall be collected every hour during each day on which stack testing occurs. All samples shall be collected from the ash residue conveyor after the ferrous recovery system, prior to being discharged into an awaiting roll-off container or truck. Samples shall contain both bottom and fly ash wastes in a mixed ratio representative of the ash residue slated for disposal. A composite sample representative of the ash residue generated during the stack-testing event shall be prepared by combining all samples collected into a single sample. The resulting composite sample shall be sent for analyses.

(iii) A new eight-week ash residue characterization period may be required by the Department if:

(A) there is a significant change in facility processes and/or operations;

(B) if there is a significant change in the type of waste(s) received for disposal at the facility; or

(C) if the results of the monthly analyses demonstrate that one or more of the parameters exceed the TCLP regulatory limits.

(iv) Re-characterization analysis will be parameter-specific in the instance where the analysis indicates concentrations in the sample extract are above the defined regulatory threshold for that parameter, resulting in the waste residue requiring reclassification as a hazardous waste. Otherwise, analysis will include the full spectrum of listed TCLP parameters.

(v) During any eight-week re-characterization period, one sample of sufficient size and of equal proportion shall be collected (as a minimum) every hour. All samples shall be collected from the ash residue conveyor after the ferrous recovery system, prior to being discharged into an awaiting roll-off container or truck. Samples shall contain both bottom and fly ash wastes in a mixed ratio representative of the ash residue slated for disposal. Daily composite samples shall be prepared by combining all samples collected during each day. The resulting daily composite samples shall be further combined into a weekly composite sample. A minimum of four (4) samples shall be taken from the weekly composite for analyses. The permittee shall retain an equivalent portion of each weekly composite sample collected during this eight-week period, so that the Department may conduct follow-up analyses when necessary. The samples retained shall be clearly marked for identification, appropriately preserved using approved techniques, and stored at the facility for a period of sixty (60) days from the date the composite sample is transferred to the laboratory for analysis.

(vi) During the eight-week residue re-characterization period, each week's ash residue shall be stored separately until the analytical results from that week's composite sample are received, and a determination is rendered on the hazardous or non-hazardous nature of the material.

(vii) If the results of the analyses equal or exceed the TCLP parameter-specific regulatory threshold, that ash shall be disposed of at the hazardous waste disposal facility secured by the permittee for that purpose. If the material is determined to be non-hazardous, it shall be disposed of at a landfill permitted to receive waste ID number 27I as defined at N.J.A.C. 7:26-2.13(g), and in accordance with the Gloucester County District Solid Waste Management Plan, as applicable.

(viii) At the completion of the eight-week period of re-characterization, the monthly ash residue sampling and analysis regimen outlined in conditions 4(c)(3)(i) and 4(c)(3)(ii) of Section III above, shall not be re-instituted without express written approval from the Division of Solid and Hazardous Waste.

(ix) All analyses called for as a condition of this permit shall be performed by a laboratory approved, and/or certified by the Department for those specific analyses. The permittee shall submit each set of analytical results, with the appropriate statistical analysis, to the Division of Solid and Hazardous Waste upon the receipt of said results.

(d) Residue Removal

(1) All truck bodies or containers used to remove ash residue, unprocessible waste and recovered ferrous metal, shall be sealed to prevent leakage and shall not be filled to levels that permit overflow or spillage during transport. The ash residue and unprocessible waste removal vehicles (truck bodies and/or containers) shall be covered to prevent spillage or scattering by wind during transport.

(2) Trucks removing ferrous metals shall also be covered to prevent spillage during transport; however, those vehicles which are loaded in a manner such that the recovered ferrous does not extend above the level of the container or truck body, are not required to be covered.

(3) Vehicle and/or container loading shall be conducted solely within the confines of the Ash Residue Building in a controlled manner that minimizes dusting and prevents the tracking of ash to the exterior of the building. Truck tires shall be inspected and, if necessary to prevent the tracking of ash onto plant roads, shall be washed and/or brushed clean before the trucks leave the loading area.

(4) Ash residue, unprocessible materials and ferrous metal removal vehicles shall leave the facility promptly after being loaded. Exterior storage of ash residue, unprocessible or recovered ferrous metal in loaded trucks is prohibited.

5. Operations Records

(a) In addition to the operating record and reporting requirements of Condition 9 of Section I of this permit and of Condition 2 of Section II of this permit, the permittee shall maintain the following records of facility operations on a daily basis, and shall submit a monthly summary report of the daily totals for the reportable items listed below, which shall also include the monthly totals for each item. This report shall be submitted to the following address, before the 15th of the following month:

Chief
Bureau of Resource Recovery and Technical Programs
Division of Solid and Hazardous Waste
PO Box 414
Trenton, New Jersey 08625-0414

(b) All such reports shall be signed, certified, and dated by an appropriate authorized agent for the facility. The information submitted shall include, but not be limited to the following:

(1) The weight and origin of solid waste delivered to the facility for each waste type permitted by this Permit;

(2) The weight of unprocessible solid waste removed for alternate disposal, and the facility receiving that waste for disposal;

(3) The weight of ash residue removed for disposal, and the facility(s) receiving the residue for disposal;

(4) The weight of recovered metal removed, and the facility receiving the recovered material;

(5) The quantity of steam generated (in pounds) for each combustion unit over each discrete 4 hour block of time;

(6) The total electrical energy generated (in kilowatt-hours per day) and the net electrical energy exported; and

(7) The amount of urea delivered to the facility.

(c) Operations records shall be maintained on the premises for a three-year period, and shall be made available for inspection by Departmental personnel upon request.

(d) All printed or electronically recorded records generated by the facility's monitoring and control systems through log printers, strip chart recorders or other means shall also be kept on file at the facility for a period of at least three (3) years from the date of data collection, and such records shall be made available for inspection by the Department upon request.

(e) All records associated with the performing and/or monitoring of air pollution controls shall be maintained at the facility for a period of at least five (5) years, in accordance with Federal PSD requirements.

End of Section III