Hazardous 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:

Safety-Kleen (Bridgeport), Inc.
Routes 322 and 295, P.O. Box 337
Bridgeport, New Jersey 08014
EPA ID No. NJD 053 288 239

For the Purpose of Operating a: Hazardous Waste Storage, Transfer and Treatment Facility

On Lot No.: 16
Block No.: 51
In the Municipality of: Logan Township
County: Gloucester
Under Facility Permit No.: 0809D1HF17

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 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 or the U.S. Environmental Protection Agency.

March 31, 1989
Director

September 29, 1989
Director

Modified
June 28, 1991
Modified
April 4, 1991
Modified
April 8, 1992
Modified
September 14, 1992
Modified
April 1, 1993
Modified
December 6, 1993
Modified
February 27, 1996
Modified
October 31, 1996
Modified
July 8, 1997
Modified

Signed by Thomas Sherman, Assistant Director

Division of Solid and Hazardous Waste

September 10, 1998
Modified

December 8, 1998
Modified

May 13, 1999
Modified

January 20, 2000
Modified

Modified
Scope of Permit

This permit along with the referenced permit application documents herein specified shall constitute the sole Hazardous Waste Facility Permit for the operation of a commercial incineration system and transfer station by Rollins Environmental Services (NJ) Inc. located in Logan Township, Gloucester County, New Jersey. Any Registration or Approval previously issued by the Division of Hazardous Waste Management or its predecessor agencies is hereby superseded. The permittee need not comply with the conditions of this permit to the extent and for the duration such noncompliance is authorized by an emergency permit (N.J.A.C. 7:26-12.9).

(Modified 9/29/89)

Regulated Activities at the Facility

Section I of this permit contains the general conditions applicable to all commercial hazardous waste facilities, and is applicable to each hazardous waste management activity at the Rollins Environmental Services (NJ) Inc. site. Section II of this permit contains the specific conditions applicable to each of the following hazardous waste management activities at the Rollins Environmental Services (NJ) Inc. site:

- Existing Rotary Kiln
- Existing Lodby Burner
- Existing Afterburner
- Existing Covered Drum Pad
- Existing Kiln Storage Area
- Existing Guard House Drum Pad
- Existing Phase I Tank Farm
- Existing Phase II Tank Farm
- Proposed Phase III Tank Farm
- Existing Kiln Ash Accumulation Area
- Existing Scrubber Sludge Accumulation Area
- Existing Scrubber Water Effluent Storage Tanks
- Proposed Rotary Reactor
- Proposed Rotary Reactor Feed Building
- Proposed Drum Crusher
- Proposed Container Storage Building

In addition to this initial permit, the Department will be preparing modifications to this permit in accordance with N.J.A.C. 7:26-12.6 to address the following additional hazardous waste management activities at the site:

- Proposed Container Storage/Process Building
- Proposed East Rail Spur Container Storage Area
- Proposed Phase IV Tank Farm
- Proposed Rail Spurs
- Proposed Truck Parking Areas

Minor Modification Dated 04/04/91

The minor modification replaces the Extraction Procedure (EP) Toxicity Characteristic for hazardous waste numbers D004 through D017 with the Toxicity Characteristic (TC) and its corresponding methodology the Toxicity Characteristic Leaching Procedure (TCLP). The minor modification also includes the addition of the TC hazardous
waste numbers D018 through D043, hazardous waste numbers F039 and K107 through K110.

**Minor Modification Dated 06/28/91**

The minor modification includes the addition of hazardous waste numbers F032, F034, F035, F037 and F038.

(Added 04/08/92)

**Major Modification Dated 04/08/92**

The major modification includes the addition of two (2) container storage areas designated as E₁ and E₂ with storage capacities of one hundred seventy thousand (170,000) and eighty thousand (80,000) gallons, respectively for loading and unloading of hazardous and non-hazardous waste to or from trucks, vans and tankers and for the storage of hazardous and non-hazardous waste in dump trailers, box trailers, tank trailers, roll-offs and containers which vary in size from one (1) to three hundred fifty (350) gallons.

(Added 04/08/92)

**Summary of Permit Compliance Conditions at the Facility**

1. The permittee shall submit a letter to the Department at the address listed in Condition 22(a) of Section I in accordance with Condition 6(e) of Section II of this permit for the proposed container storage areas E₁ and E₂.

2. The permittee shall submit an amended contingency plan in accordance with N.J.A.C. 7:25-9.7 within thirty (30) days of completion of construction of each storage area.

3. The permittee shall submit an updated closure cost estimate in accordance with N.J.A.C. 7:26-9.8 and financial assurance for closure based on the owner/operator's estimate of the costs for proper closure in accordance with N.J.A.C. 7:26-9.10 for the proposed container storage areas E₁ and E₂ within thirty (30) days of completion of construction of each storage area.

**Minor Modification Dated 09/14/92**

The minor modification allows the permittee to install an oxygen enrichment feed system for both the primary and secondary chambers of the existing incinerator. A 15 second delay for the automatic waste feed cutoff for less than 3% oxygen in the hot duct was added.

**Major Modification dated 04/01/93**

The major modification allows the permittee to increase the ash content of the liquid waste feed to the incinerator from 2 percent to 4 percent. A revised Waste Analysis Plan dated July 1992 was incorporated into the permit and operating procedures.

The permitted storage capacity of three trailer parking areas was increased a total of 16,000 gallons. An upgrade of the containment system in the T-323 loading area will be required to meet the new capacity.

**Major Modification Dated 12/06/93**
The major modification authorizes the acceptance of additional waste codes, approves an upgrade of the existing covered drum pad, authorizes manual and mechanized drum repacking and extrusion equipment, authorizes the use of a shredder and feed system to the incinerator, authorizes the use of an auxiliary elevator feed system to the incinerator, authorizes the installation of a viscosity reduction station, increases the storage capacity of containers and tanks by a total of 47,840 gallons, and authorizes the modification of the waste analysis plan.

Minor Modification Dated 02/27/96

The minor modification authorizes the permittee to utilize the Container Storage Building to store containers of hazardous waste that will be transferred to another authorized facility. The minor modification also clarifies which hazardous waste container storage areas are authorized to store hazardous waste to be transferred. All hazardous waste container storage areas authorized by Condition 2(a) of Section II of the permit, with the exceptions of the kiln staging area and the eductor storage pad, are authorized to store hazardous waste that will be transferred to another authorized facility.

Major Modification Dated 10/31/96

The major modification authorizes the acceptance of additional waste codes, authorizes the bulking, blending and repackaging of wastes accepted for transfer to another facility and revises the permittee's waste analysis requirements. The permit is also being modified to reference the permittee's latest revision to the facility's contingency plan. Furthermore, the permit is being modified to correct the minimum required water flow rate to the Calvert Venturi Scrubber, a part of the incinerator's air pollution control system.

Class 1 Modification Dated 08/03/98

The permittee implemented Class 1 modifications to replace the piping used to transfer gaseous wastes from the glove box to the rotary kiln combustion chamber and to change the name of the owner/operator and the facility to Safety-Kleen (Bridgeport), Inc.

Class 2 Modification Dated 09/10/98

The modification authorizes changes to the facility’s Contingency Plan, including updates of names, titles, and phone numbers of individuals and organizations listed in the plan, and revisions to the emergency equipment list, equipment inspection schedule and emergency training.

Class 1 Modification Dated 12/08/98

The permittee implemented Class 1 modifications to install piping to allow the safe transfer of water reactive wastes from the glove box to the rotary kiln chamber of the incinerator and to upgrade the ash containment area.

Class 1 and 2 Modifications Dated 05/13/99

The permittee implemented a Class 1 modification to revise the
facility’s Contingency Plan to reflect changes in facility personnel, to update contact information and to make other editorial changes. Also, approval of a Class 2 Modification authorizes the permittee to accept and manage hazardous wastes classified with codes K169, K170, K171, and K172.

Class 2 Modification Dated 01/20/00

The Department approved a Class 1 Modification to authorize changes in the design and associated construction of the shredder feed system.

Class 1 Modification Dated 07/03/00

The permittee implemented three (3) separate Class 1 modifications to the permit. On April 17, 2000, the permittee notified the Department that on April 10, 2000, a small vaporizer unit, steam lines, piping and control valves were installed in the vicinity of the existing Kiln Staging Area to allow the safe processing of a Freon-23 waste stream. On April 24, 2000, the permittee notified the Department of the intention to replace the Loddy can. On June 7, 2000, the permittee notified the Department that on June 1, 2000, new piping was installed to connect tank T-308 to the Direct Burn Unloading Area.
The permit is conditioned upon compliance with and implementation of the following:

1. **Duty to Comply**

   The permittee shall comply with all conditions of this Permit. Any permit non-compliance constitutes a violation of the Solid Waste Management Act (N.J.S.A. 13:1E-1.1 et seq.) and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

   Any generator, hauler, facility operator or any other person who discharges or is responsible for discharge of hazardous waste on land or in the waters of the State of New Jersey or at any place other than an approved hazardous waste facility shall be subject to penalties pursuant to N.J.S.A. 58:10A-1 et seq.

2. **Duty to Reapply**

   If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must submit a complete application for a new permit at least one hundred eighty (180) days prior to permit expiration.

3. **Duty to Halt or Reduce Activity**

   It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

4. **Duty to Mitigate**

   The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from non-compliance with this permit.

5. **Proper Operation and Maintenance**

   The permittee shall at all times properly operate and maintain the facility and systems of treatment and control, and related appurtenances, which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this permit.

6. **Permit Actions**

   This permit may be modified or revoked and reissued for cause pursuant to N.J.A.C. 7:26-12.6. Also, the Department reserves
the right to terminate an existing permit for cause pursuant to N.J.A.C. 7:26-12.7.

The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated non-compliance, does not stay any permit condition.

7. Property Rights

This permit does not convey any property rights of any sort, or any exclusive privilege.

8. Duty to Provide Information

The permittee shall furnish to the Department, within a reasonable time, any information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Department, upon request, copies of records required to be kept by this permit.

9. Right of Entry

The permittee shall allow an authorized representative of the Department upon presentation of credentials to:

(a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records shall be kept under the conditions of this permit;

(b) Have access to and copy any records that should be kept under the conditions of this permit;

(c) Inspect any facilities, equipment (including monitoring control equipment), practices, or operations regulated or required under this permit; and

(d) Sample or monitor for the purposes of assuring permit compliance or as otherwise authorized by the Solid Waste Management Act (N.J.S.A. 13:1E-1.1 et seq.), any substances at any location.

(Modified 04/08/92)

10. Monitoring and Records

Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

(a) The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings or electronic data acquisition and storage system including optical disc system for continuous monitoring instrumentation, copies of all reports required by this permit, the
certification required by Condition 12(k) of Section I of this permit and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report, or application. This period may be extended by request of the Department at any time.

(b) Records of monitoring information shall include:

1. the date, exact place, and time of sampling or measurement;
2. the individual(s) who performed the sampling or measurements;
3. the date(s) analyses were performed;
4. the individual(s) who performed the analyses;
5. the analytical techniques or methods used; and
6. the results of each analysis.

11. Signatory Requirement

All applications, reports, or information submitted to the Department shall be signed and certified pursuant to N.J.A.C. 7:26-12.2(k).

12. Reporting Requirements

(a) Upon issuance of this permit, the permittee shall comply with the procedure outlined in Conditions 12(a)1 below. Failure to comply with the aforementioned procedure shall be cause for immediate revocation of this permit.

1. The permittee shall submit to the Department, by certified mail or hand delivery, within sixty (60) days of the effective date of this permit, a letter signed by the permittee and a registered professional engineer, who is licensed by the State of New Jersey, stating that the facility layout and design is in compliance with the Engineering Plans and Reports cited in Condition 1(a) of Section II of this permit. This shall include the submittal of a revised set of the engineering drawings cited in Condition 1(a) of Section II of this permit, if necessary. These drawings shall be signed and sealed by a New Jersey licensed professional engineer; the permittee shall also submit a demonstration that the permeability of any non-bituminous concrete or non-Portland cement concrete used as a base construction material in the construction of secondary containment for hazardous waste storage tanks is $1 \times 10^{-7}$ cm/sec. or less.

2. The Department shall inspect the facility to determine whether or not it is in compliance with the designs set forth in the Engineering Plans and Reports, and whether the operations of the facility are in compliance with the conditions of this permit. If within fifteen (15) days of the date of submission of the letter in Condition 12(a)1 of this section, the permittee has not received from the Department notice of intent to inspect, prior inspection is waived and it is understood that the
facility meets the design requirements. If the facility is not in compliance with the approved design and other conditions of this permit, a schedule shall be submitted within thirty (30) days of the date of the Department's inspection, outlining how the facility will be brought into compliance. The schedule shall be subject to the Department's approval.

(b) Planned Changes

The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. The permittee shall obtain Department approval, prior to implementation, for any such alteration or addition subject to Department regulations or the conditions of this permit, including permit modification or permit revocation and reissuance, if necessary.

(c) Anticipated Noncompliance

The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. Such advance notice shall not stay the applicability of said permit requirements or the applicability of Condition 1 of this permit, nor shall it relieve the permittee from the obligation to obtain all necessary Departmental approvals of such changes prior to implementation, including permit modification, permit revocation and reissuance, or issuance of an emergency permit, where necessary.

(d) Transfer of Ownership or Operational Control

1. Permits issued pursuant to N.J.A.C. 7:26-12.1 et seq. are not transferable directly to a new owner or operator.

2. The permittee shall notify the Department at least one hundred eighty (180) days in advance of any proposed change of ownership or operational control of a facility. The notice shall include:

   (a) A disclosure statement prepared by the prospective new permittee meeting the requirements of N.J.A.C. 7:26-16.1 et seq.;

   (b) A written agreement between the existing permittee and the proposed new permittee containing a specific future date for transfer of permit responsibilities coverage and liabilities between them;

   (c) A demonstration that the financial responsibility requirements of N.J.A.C. 7:26-9.10 and N.J.A.C. 7:26-9.13 will be met by the proposed new permittee.
3. A new owner or operator may commence operations at the facility only after the existing permit has been revoked and reissued pursuant to N.J.A.C. 7:26-12.6(c).

4. The Department reserves the right to terminate the existing permit for cause pursuant to N.J.A.C. 7:26-12.7.

5. The permittee of record remains liable for ensuring compliance with all conditions of the permit unless and until the existing permit is reissued in the name of the new owner or operator.

Modified Condition 12(e) 04/01/93

(e) Manifest

1. Duty to Submit Significant Manifest Discrepancy Reports

   The permittee shall submit significant manifest discrepancy reports in accordance with N.J.A.C. 7:26-7.6(a)4iv.

2. Duty to Report receipt of Unmanifested Waste

   An unmanifested waste report shall be submitted to the Department within fifteen (15) days of receipt of unmanifested waste.

(f) Annual Reports

   The permittee must prepare and submit two copies of a facility annual report to the Department as per N.J.A.C. 7:26-7.6(f)2 by March 1 of each year, covering the previous calendar year.

(g) Discharge and Other Emergency Reporting

   The permittee shall report any noncompliance which may endanger human health or the environment. The following information shall be reported orally to the Department immediately after the permittee becomes aware of the circumstances by calling (609) 292-7172 (24 hours).

   1. Information concerning release of any hazardous waste that may cause an endangerment to public drinking water supplies.

   2. Any information of a release or discharge of hazardous waste, or a fire or explosion from a hazardous waste facility which could threaten the environment or human health outside the facility.

   3. The description of the occurrence and its cause shall include:
(a) Name, address, and telephone number of the owner or operator;

(b) Name, address, and telephone number of the facility;

(c) Date, time and type of incident;

(d) Name and quantity of material(s) involved;

(e) The extent of injuries, if any;

(f) An assessment of actual or potential hazards to the environment and human health outside the facility, where this is applicable; and

(g) Estimated quantity and disposition of recovered material that resulted from the incident.

A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances, to the address in Section (j) of this condition. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

(h) Other Noncompliance

The permittee shall report all instances of noncompliance not reported under Section (c) or (g) of this Condition within thirty (30) days of the time the permittee becomes aware of the noncompliance. The reports shall contain the information listed in Section (g) of this Condition.

(i) Other Information

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or information.

(j) Department Address

All reports and submittals required by this permit are to be submitted to the Department of Environmental Protection at the following address:

(Modified 04/08/92)
Department of Environmental Protection and Energy
Division of Hazardous Waste Regulation Program
Chief, Bureau of Hazardous Waste Engineering
CN028
Trenton, New Jersey 08625
Copies of all submittals shall also be sent to the Southern Bureau of Water and Hazardous Waste Field Operations.

(k) Duty to Submit an Annual Certification

An annual certification shall be submitted by the permittee that the permittee has a program in place to reduce the volume and toxicity of hazardous waste generated by the permittee, and that the method of treatment, storage, or disposal of the generated hazardous waste is that method currently available to the permittee that minimizes the present and future threat to human health and the environment.

(Modified 04/08/92)

13. Preparedness and Prevention

The permittee must equip the facility with emergency equipment in order to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous wastes or hazardous waste constituents to the air, surface water, or ground water which could threaten the environment or human health. The facility's equipment must include, but not be limited to, the following:

(a) Portable fire extinguishers placed in locations throughout the facility.

(b) An adequate water supply shall be maintained on-site or be available to fight fires and provide cooling during emergencies.

(c) Telephone communications must be locally maintained to summon emergency assistance from local fire departments, police departments, state or local emergency response teams.

(d) Spill containment structures must be maintained free of cracks or gaps.

(e) Absorbent compounds must be readily available within the facility to be employed if a spill should occur.

(f) All preparedness and prevention equipment shall be tested and maintained as necessary to assure its proper operation in time of emergency.

14. Personnel Training

(a) Facility personnel shall successfully complete a program of classroom instruction or on-the-job-training that teaches them to perform their duties in a way that insures the facility's compliance with the requirements of N.J.A.C. 7:26-9.4 (g), as stated in the facility's part B permit application, and as referenced in Condition 1(a) of Section II of this permit. New employees shall be trained within six (6) months of the date of employment.
(b) The training program shall be maintained with records and documentation describing the type and amount of both introductory and continuing training that has been and will be given to each person engaged in hazardous waste management at the facility.

15. Financial Requirements

(a) The permittee shall continue to maintain financial responsibility for claims arising from the operations of the facility from sudden and accidental occurrences or nonsudden and accidental occurrences that cause injury to persons or property. The permittee shall have and maintain liability insurance for sudden occurrences in the amount of at least $1 million per occurrence with an annual aggregate of at least $2 million, exclusive of legal defense costs, and for nonsudden occurrences in the amount of at least $3 million per occurrence with an annual aggregate of at least $6 million, exclusive of legal defense costs.

The following is a summary of acceptable means to demonstrate financial responsibility for sudden and accidental occurrences and nonsudden and accidental occurrences under N.J.A.C. 7:26-9.13:

1. Submission of an originally signed duplicate of the insurance policy. This policy must be either:
   
   (a) Amended by attachment of an originally signed duplicate of a Hazardous Waste Facility Liability Endorsement; or
   
   (b) An originally signed duplicate of a Certificate of Liability Insurance must accompany the policy as evidence of the coverage.

2. Passing a financial test for liability coverage according to N.J.A.C. 7:26-9.13(f).

3. Use of a combination of insurance and financial test.

(b) The permittee shall continue the use of the financial assurance mechanisms in N.J.A.C. 7:26-9.10 and N.J.A.C. 7:26-9.11 to provide financial assurance for closure and post closure care of the facility.

The following is a summary of the financial mechanisms that are allowed for facilities under N.J.A.C. 7:26-9.10 and N.J.A.C. 7:26-9.11:

1. Trust Fund, N.J.A.C. 7:26-9.10(f)1 and N.J.A.C. 7:26-9.11(d)1;

2. Surety bond guaranteeing payment into a trust fund, N.J.A.C. 7:26-9.10(f)2 and N.J.A.C. 7:26-9.11(d)2;

3. Performance bond, N.J.A.C. 7:26-9.10(f)3 and N.J.A.C. 7:26-9.11(d)3;
4. Letter of Credit and establishment of a standby trust fund at the time of the letter of credit is obtained, N.J.A.C. 7:26-9.10(f)4 and N.J.A.C. 7:26-9.11(d)4;


(c) The wording of all financial documents (except for the insurance policy itself) that are submitted under 15(a) or 15(b) above must be exactly as specified in N.J.A.C. 7:26-9 (Appendix A).

(d) The permittee must adjust the facility's closure and post closure care cost estimates for inflation within thirty (30) days after each anniversary of the date on which the first cost estimates were prepared. Whenever the current cost estimates increase to an amount greater than the amount of the financial mechanisms, the permittee, within sixty (60) days after the increase, must either cause the amount of the financial mechanisms to be increased so that they at least equal the current closure estimates and submit evidence of each increase to the Department, or obtain and document to the Department other financial assurance, as specified in N.J.A.C. 7:26-9.10 and N.J.A.C. 7:26-9.11, to cover the increases.

(e) The permittee must submit to the Department, within sixty (60) days from the effective date of this permit, revised closure and post closure care cost estimates pursuant to N.J.A.C. 7:26-9.10 and N.J.A.C. 7:26-9.11. These revised cost estimates shall include:

1. The closure cost estimate must be based on removal of the maximum inventory of hazardous waste, and all wastes generated through the decontamination of equipment at the permittee's facility, to an authorized off-site facility, which is not a parent, subsidiary or sister company of the permittee, for final treatment and/or disposal, including the transportation hauling costs along with the distance(s) (in mile(s)) to the intended off-site facility (or facilities), unless the permittee can document that there is a third party, who is not a parent, subsidiary or sister company of the permittee, who would be qualified to operate the permittee's waste treatment systems as part of a closure entailing on-site treatment.

2. The post closure care cost estimate must be revised to include the closed basins area.

16. **Operating Record**

The permittee must keep a written operating record at the facility in which the information to N.J.A.C. 7:26-9.4(i) shall be recorded. The information should be recorded as it becomes available and maintained until closure of the facility.
17. **Posting of Notice**

The notice concerning civil and criminal penalties for illegal disposal of hazardous waste must be conspicuously posted and available for all employees to read.

8. **Early Expiration of Permit**

If, for any reason, this facility ceases to be operated on a continuous basis and/or ceases to be operated by the owner(s) or operator(s) listed in the Disclosure Statement submitted May 20, 1988, the permit expires of its own accord and remains ineffective until reissuance by the Department.

Furthermore, the Disclosure Statement remains under review by the Department, and pursuant to N.J.A.C. 7:26-16.9(a)1, if the Department determines that any cause exists which would require disqualification of the permittee pursuant to N.J.A.C. 7:26-16.8, then this permit may be revoked by the Department.

19. **Permit Limitations**

(a) The issuance of a permit does not authorize any injury to persons or property or invasion of other private rights or any infringement of applicable Federal, State, or local laws or regulations.

(b) This permit does not constitute the sole source of guidelines to be followed. Any new or current regulations concerning Water Quality, Air Pollution, Hazardous Waste, or other rules of the Department of Environmental Protection, applicable to the facility shall be complied with at the effective date. Regulations are effective upon publication in the New Jersey Register or as otherwise indicated in the Notice of Adoption in the New Jersey Register.

20. **Contingency Plan**

(a) The provisions of the Contingency Plan included in the Part B permit application plus all amendments, revisions and modifications thereof subsequently submitted for review and accepted by the Department, and as referenced in Condition 1(a) of Section II of this permit, shall be carried out immediately whenever there is a fire, explosion or release of hazardous waste constituents which could threaten health or the environment.

(b) In the event of an emergency an alarm system must be activated to alert employees. The local Fire and Police Department shall be notified immediately. The telephone numbers are:

- Bridgeport Fire Company: (609) 467-9894
- Logan Township Police Department: (609) 423-6500

(c) If the facility has a discharge, fire, or explosion which could threaten human health or the environment, the
following shall be notified immediately:
(Modified 04/08/92)
1. National Response Center
   2100 Second Street, SW
   Washington, D.C. 20593
   Telephone 1-800-424-8802 (24 hours)
2. New Jersey Department of Environmental Protection and
   Communication Center/Trenton Dispatch
   Bureau of Communication and Support Services
   Trenton, N.J. 08625
   Telephone (609) 292-7172 (24 Hours)

(d) The emergency coordinator's notification to both of the
above two telephone numbers must include the following
information:
   1. Name and telephone number of person reporting;
   2. Name and address of facility;
   3. Time and type of incident (fire or explosion);
   4. Name and quantity of material(s) involved, to be extent known;
   5. The extent of injuries, if any; and
   6. The possible hazards to human health, or the environment, outside the facility.

(e) Semi-annual drills involving all employees present and
appropriate local authorities shall be conducted to test emergency response capabilities at the facility in accordance with the contingency plan and emergency procedures developed pursuant to N.J.A.C. 7:26-9.7.

21. Security

The permittee must maintain the security procedures as described in the facility's security plan, included in the Part B permit application plus all amendments, revisions and modifications thereof subsequently submitted for review and accepted by the Department, and as referenced in Condition 1(a) of Section II of this permit.

These procedures shall include:

(a) Controlled entry at the main gate and all other access gates to the site.

(b) An artificial or natural barrier, which completely surrounds the active portion of the facility. Maintenance of any fence which encloses the entire manufacturing site.

(Modified 04/08/92)
(c) Maintenance of warning signs posted with the legend, "Danger-Unauthorized Personnel Keep Out", at each entrance of the hazardous waste management area, and also in
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sufficient numbers around this area, which can be seen from a distance of twenty five (25) feet.

(Added 04/08/92)

22. Submission of Documents Required by Permit Compliance Conditions

The permittee shall submit all permit compliance requirements of Section II of this permit to the following addresses:

(a) New Jersey Department of Environmental Protection and Energy
    Hazardous Waste Regulation Program
    Bureau of Hazardous Waste Engineering
    CN028
    Trenton, New Jersey 08625-0028

(b) New Jersey Department of Environmental Protection and Energy
    Office of Enforcement Policy
    Southern Bureau of Water & Hazardous Waste Enforcement
    20 East Clementon Road - Suite 301 South
    Gibbsboro, N.J. 08026

Section II
Specific Conditions Applicable to Rollins Environmental Services (NJ) Inc.

1. Referenced Permit Application Documents

(a) The permittee shall operate the facility, and construct or install associated appurtenances thereto, in accordance with the hazardous waste management provisions of Title 7, Chapter 26 of the New Jersey Administrative Code, the conditions of this permit, and the following permit application documents:

(Modified 06/28/91)
(Modified 04/08/92)


(Modified 04/08/92)
(Modified 12/06/93)

President, RES(NJ) and October 1991, signed by Terry A. Harmeson, President, RES(NJ), the December 1992 modification request and the May 18, 1993 and June 18, 1993 submittals signed by Terry A. Harmeson, President, RES(NJ) and containing the following drawings:

<table>
<thead>
<tr>
<th>Drawing No.</th>
<th>Revision</th>
<th>Drawing Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>L018-PI-001-D</td>
<td>1</td>
<td>Legend Sheet</td>
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<tr>
<td>L018-PI-002-D</td>
<td>1</td>
<td>3.6M Rotary Replacement Kiln P&amp;ID</td>
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<tr>
<td>L018-PI-003-D</td>
<td>1</td>
<td>3.6M Rotary Replacement Kiln P&amp;ID</td>
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<td>L026-PI-01-E</td>
<td>A</td>
<td>Process and Instrumentation Diagram</td>
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<tr>
<td>L024-PI-01-E</td>
<td>A</td>
<td>Process and Instrumentation Diagram and Hydraulic Profiles</td>
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<tr>
<td>L024-PI-02-E</td>
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<td>Process and Instrumentation Diagram and Hydraulic Profiles</td>
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<tr>
<td>L025-PI-01-E</td>
<td>A</td>
<td>Process and Instrumentation Diagram for Storm Water Management</td>
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<tr>
<td>L016-SS-01-D</td>
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<td>Drum unloading and Decanting Area</td>
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<tr>
<td>L016-SS-02-D</td>
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<td>Trailer Sampling Bay Phase I Tank Farm</td>
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<tr>
<td>L016-SS-03-D</td>
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<tr>
<td>L016-SS-04-D</td>
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<td>Phase III Truck Unloading and Tank Farm</td>
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<tr>
<td>300-CC-02-4</td>
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<td>Truck unloading Bay and Pump Shelter</td>
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<td>300-CC-03-4</td>
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<td>300-CC-04-1</td>
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300-CC-05-1 0 Truck unloading Bay and Pump Shelter
300-CC-06-3 0 Phase I Tank Farm Plan
300-CC-08-1 0 Phase I Tank Farm Wall Sleeve Locations
Modified 04/01/93
300-CC-51-D-4 5 T-323 Loading Pad Sections & Details
S-3 3 Dumpster Shed and Foundation Plans
SK-199
Modified 04/01/93
300-CC-30-D 3 T-103 Containment Area
300-CC-01-4 0 Phase III Tank Farm Foundation Plan
300-CC-29-0-D 0 Steel drum Pad Containment Area
300-EF-14-0-D 0 Tank 323 Engineering Flow Diagram
300-EF-01-4D 0 Tank Truck Unloading/Filtering Operation Phase I Tank Farm
300-EF-02-4-D 0 Blend Tanks/Incinerator Feed Flow diagram
300-EF-09-0-D 0 Tank Truck Unloading/Filtering Operation Phase III Tank Farm
300-EF-10-0-D 1 P & I diagram
300-EF-04-4-D (Added 04/01/93)
LO45-CC-104-D 0 Container storage area 320 (Lime Slaker Area)
(Added 08/03/98)
LO45-PI-01-D 17 Piping & Instrumentation Diagram for Glove Box
(Added 12/08/98)
PRL225-01-D - Water Reactives Feed Line Diagram for Glove Box
(Added 12/08/98)
98-030-SC-01 - Ash Containment Area Upgrade
(Added 12/08/98)
98-030-SP-02 - Ash Containment Area Upgrade Plan View
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<td>Direct Feed Shredder Process Flow Diagram</td>
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<td>Line 1 Line 2 Line 3</td>
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<td>01/20/00</td>
<td>Direct Feed Shredder Feed Conveyor M-636 Assembly &amp; Installation</td>
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<td>225-PDD-801</td>
<td>07/03/00</td>
<td>Freon 23 Vaporizing System Piping &amp; Instrumentation Flow Diagram</td>
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<td>225-SP-801</td>
<td>07/03/00</td>
<td>Freon 23 Vaporizing System Site Plan</td>
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<td>Freon 23 Vaporizing System Vaporizing Pot Fabrication Drawing</td>
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<td>9969-M1</td>
<td>07/03/00</td>
<td>Loddby Burner Can Assembly</td>
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<td>Loddby Burner Can Air Duct Damper Assembly</td>
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<td>Loddby Burner Can Air Duct Damper Details</td>
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<td>Incinerator Truck Unloading Phase II - P&amp;ID Process</td>
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<tr>
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<td>Phase II Storage Tanks Engineering Flow Diagram</td>
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<td>Incinerator Truck Unloading - Phase III</td>
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<tr>
<td>300-CC-34-0-D</td>
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<td>Ash Containment Area</td>
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<tr>
<td>300-CC-35-0-D</td>
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<td>East Trailer Parking Area</td>
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Engineering Drawing signed and sealed by Joseph R. Szabo, P.E.
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(Deleted L021-PI-003-D, Rev. C, 07/03/00)

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<td>Lime Sludge Dryer Installation</td>
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<td>Heavy Metals Removal</td>
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(Added 04/08/92)  
(Modified 12/06/93)

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<td>Drum Crusher</td>
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<td>L076-CC-100</td>
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<td>Overall Site Plan</td>
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<td>L062-CC-101</td>
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<td>Container Storage Area E1</td>
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<tr>
<td>L062-CC-102</td>
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<td>Container Storage Area E2</td>
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8. The letter dated July 9, 1996, and attachments submitted by Terry A. Harmeson, President, Rollins Environmental Services (NJ) Inc.

9. The comments to the draft permit modification dated September 30, 1996, submitted by Terry A. Harmeson, President, Rollins Environmental Services (NJ) Inc.

10. The notification of a Class 1 permit modification dated May 28, 1998, submitted by Larry P. Walker, Vice President, Laidlaw Environmental Services (Bridgeport), Inc.

11. The notification of a Class 1 permit modification dated July 6, 1998, submitted by Larry P. Walker, Vice President, Safety-Kleen (Bridgeport), Inc.

12. The updates to the Contingency Plan dated December 9 and 15, 1997, submitted by Larry P. Walker, Vice President, Laidlaw Environmental Services (Bridgeport), Inc. on December 15, 1997.

13. The request for a Class 2 Permit Modification for the Contingency Plan Changes, dated May 27, 1998,

(Added 12/08/98)

15. The notification of the Class 1 permit modification dated November 24, 1998, submitted by Larry P. Walker, Vice President, Safety-Kleen (Bridgeport), Inc.

(Added 12/08/98)

16. The request for a Class 2 permit modification dated February 4, 1999, submitted by Larry P. Walker, Vice President, Safety-Kleen (Bridgeport), Inc.

(Added 05/13/99)

17. The notification of the Class 1 permit modification dated March 16, 1999, submitted by Michael G. Fusco, Environmental, Health & Safety Manager, Safety-Kleen (Bridgeport), Inc. (Added 01/20/00)


(Added 05/13/99)

19. The notification of a Class 1 permit modification dated April 17, 2000, submitted by Keith Michels, Technical Support Manager, Safety-Kleen (Bridgeport), Inc.

(Added 07/03/00)

20. The notification of a Class 1 permit modification dated April 24, 2000, submitted by Keith Michels, Technical Support Manager, Safety-Kleen (Bridgeport), Inc.

(Added 07/03/00)

21. The notification of a Class 1 permit modification dated June 7, 2000, submitted by Keith Michels, Environmental Compliance Manager, Safety-Kleen (Bridgeport), Inc.

In case of conflict, the hazardous waste management provisions of Title 7, Chapter 26 of the New Jersey Administrative Code shall have precedence over the conditions of this permit, and the conditions of this permit shall have precedence over the permit application documents listed above.

(b) One complete set of the permit application documents listed in Condition 1(a) above, this Hazardous 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. The records, reports and plans required pursuant to this report include the following:

1. The Personnel Training Plan and records required by Condition 14 of Section I of this permit and N.J.A.C. 7:26-9.4(g).


3. The written Operating Record required by Condition 16 of Section I of this permit and N.J.A.C. 7:26-9.4(i).

(Modified Condition 1(b)4 10/31/96)
(Modified Condition 1(b)4 09/10/98)
(Modified Condition 1(b)4 05/13/99)

4. The Contingency Plan required by Condition 20 of Section I of this permit and N.J.A.C. 7:26-9.7, and specifically the Contingency Plan (Emergency Response Plan) prepared by Rollins Environmental Services (NJ) Inc. Laidlaw Environmental Services (Bridgeport), Inc., and Safety-Kleen (Bridgeport), Inc. as revised on February 26, 1999.

(Modified Condition 1(b)5 04/01/93)
(Modified Condition 1(b)5 12/06/93)
(Modified Condition 1(b)5 10/31/96)

5. The Waste Analysis Plan outlined in Condition 4 of Section II of this permit, as required by N.J.A.C. 7:26-9.4(b), specifically the plan prepared by Rollins Environmental Services (NJ) Inc. dated September, 1996, and Department-approved revisions thereto.

6. The Inspection Requirements required by Condition 5 of Section II of this permit and N.J.A.C. 7:26-9.4(f) and N.J.A.C. 7:26-10.5(c) and N.J.A.C. 7:26-10.7(h).

(Modified 04/08/92)

7. The Closure Plan required by Condition 7 of Section II of this permit and N.J.A.C. 7:26-9.8 and N.J.A.C. 7:26-10.4(c), N.J.A.C. 7:26-10.5(h) and N.J.A.C. 7:26-10.7(l) and Part B permit applications dated February 8, 1988 and October 1991.

2. Authorized Activities

(a) Storage

1. Container Storage Requirements

   a. All containers used for hazardous waste storage shall meet the requirements of N.J.A.C. 7:26-7.2 and shall be managed in accordance with N.J.A.C.
b. Fiber drums, plastic drums, positive displacement pump tote bins or other containers approved by the United States Department of Transportation may be used to store hazardous wastes in permitted areas, provided that the total volume of material stored in each area does not exceed the permitted storage capacity. All containers shall be constructed of materials compatible with the wastes stored.

c. Container storage area floors shall be constructed of concrete at least six (6) inches thick, free of cracks or gaps and sufficiently impervious to contain leaks and spills until contaminated liquids are detected and removed. The concrete floor shall have a permeability rating no greater than \((10^{-7})\) centimeters per second, in addition to adequate structural integrity to withstand the maximum anticipated loads applied to the floor due to activities or structures placed in the containment area. Floors shall be inspected daily for cracks and condition of joints in accordance with Condition 5(a) of this section. All joints, cracks or gaps shall be kept filled with a suitable joint sealant material. The sealant material shall be non-susceptible to the wastes stored.

(d. Containers smaller than fifty-five (55) gallons shall be stacked no higher than the equivalent of two (2) fifty-five (55) gallon containers. Fifty-five (55) gallon containers shall be stacked no greater than two (2) high. Containers greater than fifty-five (55) gallons shall be stacked no greater than one (1) high. All containers shall be arranged so that each identification label is visible. A minimum twenty four (24) inch aisle space shall be maintained between each row of palletized or otherwise elevated containers.

e. Containers shall be segregated in the storage area by compatibility class.

f. Containers holding ignitable or reactive wastes shall be located at least fifty (50) feet from the facility property line.

g. Spilled or leaked wastes shall be removed from trenches, sumps or collection areas daily.

(h. The permittee shall not place a waste which is incompatible with waste already in a
drum/container, or incompatible with a material of construction of a drum/container, in that drum/container, unless compliance with N.J.A.C. 7:26-9.4(e)2 is maintained. The permittee shall not place a hazardous waste in an unwashed drum/container which previously held an incompatible waste or material, unless compliance with N.J.A.C. 7:26-9.4(e)2 is maintained. The permittee shall evaluate each waste, prior to its addition to any drum/container, to ensure compliance with N.J.A.C. 7:26-9.4(e)2, as prescribed in Condition 4 of Section II of this permit.

h. i. The permittee shall not store within a container storage area any equipment, vehicles or other materials which may reduce the secondary containment capacity of the area.

2. Tank Storage Requirements

a. A secondary containment system, constructed of concrete, shall be maintained for each tank or group of tanks except wastewater treatment tanks and shall be free of cracks or gaps and of adequate capacity and be sufficiently impervious to contain leaks, spills and accumulated rainfall until the collected material is detected and removed. The base shall have a minimum thickness of six (6) inches and a permeability rating of no greater than $(10^{-7})$ centimeters per second, in addition to adequate structural integrity to withstand the maximum stress applied to the base due to activities or structures placed in the containment area. The secondary containment system shall be maintained and operated to efficiently drain and removed liquids resulting from leaks, spills and precipitation.

b. The permittee shall not store within a tank containment facility any equipment, vehicles or other materials which may reduce the secondary containment capacity of the area.

c. Spilled or leaked waste shall be removed from the secondary containment system daily. Accumulated precipitation shall be removed from the secondary containment system in a timely manner, to prevent blockage or overflow of the collection system. The permittee shall not place a waste which is incompatible with a material of construction of a tank, unless N.J.A.C. 7:26-9.4(e)2 is complied with. The permittee shall not place a hazardous waste in an unwashed tank which previously held an incompatible waste or material unless N.J.A.C. 7:26-9.4(e)2 is complied with. The permittee shall evaluate each waste, prior to its addition...
to any tank to ensure compliance with N.J.A.C. 7:26-9.4(e)2.

d. All tanks shall be tested annually to detect thinning of the tank wall.

e. The permittee shall ensure that the minimum shell thickness specified in Conditions 2(a)6, 2(a)7 and 2(d)1 is maintained for each tank. If the results of any of the annual shell thickness measurements specified in Condition 5(e) of this section indicate that the thickness of any measurement point on a tank is less than the required minimum, the permittee shall:

1) Immediately remove all waste from the tank;

2) Notify the Department of the wall thinning by telephone, within twenty-four (24) hours of detection;

3) Submit a written corrective action plan to the Department within thirty (30) days of detection of the deficient thickness.

(Modified Condition 2(a)3 12/06/93)
(Modified Condition 2(a)3 02/27/96)

3. Existing Storage Areas for Containerized Waste

The permittee is authorized to store containerized waste of the types listed in Conditions 3(a) and 3(b) of Section II of this permit in the following areas, as delineated in Condition 1 of Section II of this permit.

<table>
<thead>
<tr>
<th>Storage Area</th>
<th>Minimum Base Thickness (in)</th>
<th>Permitted Storage Capacity (gallons)</th>
<th># of 55 Gallon Drums</th>
</tr>
</thead>
<tbody>
<tr>
<td>Covered Drum Pad</td>
<td>6</td>
<td>24,750</td>
<td>450</td>
</tr>
<tr>
<td>Kiln Staging Area</td>
<td>6</td>
<td>17,600</td>
<td>320</td>
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<td>(Added 12/06/93)</td>
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<tr>
<td>Container Storage Building</td>
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<td>165,000</td>
<td>3,000</td>
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<td>(Deleted 04/08/92)</td>
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<tr>
<td>Guard House Drum Pad</td>
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<td>(Modified Condition 2(a)4 12/06/93)</td>
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</table>
4. **Proposed Storage Area for Containerized Waste to be Incinerated**

The permittee is authorized to store containerized waste solids, semi-solids and liquids of the types listed in Condition 3(a) and 3(b) of Section II of this permit in the following area, as delineated in Condition 1 of Section II of this permit:

<table>
<thead>
<tr>
<th>Storage Area</th>
<th>Minimum Base Thickness (in)</th>
<th>Permitted Storage Capacity (gallons)</th>
<th># of 55 Gallon Drums</th>
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<tbody>
<tr>
<td>Extruder Building</td>
<td>6</td>
<td>26,400</td>
<td>480</td>
</tr>
</tbody>
</table>

(Added 12/06/93)

5. **Existing Storage Areas for Truck Trailers of Containerized and Bulk Loads of Waste**

The permittee is authorized to spot truck trailers containing hazardous wastes of the types listed in Conditions 3(a) and 3(b) of Section II in the following contained areas, as delineated in Condition 1 of Section II of this permit:

<table>
<thead>
<tr>
<th>Storage Area</th>
<th>Minimum Base Thickness (inches)</th>
<th>Permitted Capacity (gallons)</th>
<th># of trailers</th>
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</thead>
<tbody>
<tr>
<td>T-323 Area</td>
<td>6</td>
<td>14,000</td>
<td>2</td>
</tr>
<tr>
<td>Lime Slaker Area</td>
<td>6</td>
<td>21,000</td>
<td>3</td>
</tr>
<tr>
<td>T-103 Area</td>
<td>6</td>
<td>21,000</td>
<td>3</td>
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</table>

* The permittee shall not store over 10,000 gallons in the T-323 loading area until the containment system upgrades are completed in accordance with drawing 300-CC-51-D-4 (Rev5) referenced in Condition 1(a)2 of Section II of this permit.

6. **Existing Tanks**

The permittee is authorized to blend/store liquid wastes of the types listed in Conditions 3(a) and 3(b) of Section II of this permit in the following tanks, in preparation for incineration, as delineated in Condition 1 of Section II of this permit:

<table>
<thead>
<tr>
<th>Tank Number</th>
<th>Primary Function</th>
<th>Location</th>
<th>Minimum Metal Thickness (inches)</th>
<th>Permitted Storage Capacity (gallons)</th>
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<tbody>
<tr>
<td>T-301</td>
<td>blend/storage</td>
<td>Phase I</td>
<td>0.1875 0.240 0.123</td>
<td>7,000</td>
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<td>T-302</td>
<td>blend/storage</td>
<td>Tank Farm</td>
<td>&quot; &quot; &quot; &quot;</td>
<td>7,000</td>
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<td>T-303</td>
<td>blend/</td>
<td>&quot;</td>
<td>&quot; &quot; &quot; &quot;</td>
<td>20,000</td>
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T-304 blend/ storage  " " " " 20,000
T-308 blend/ storage Phase II Tank Farm " " " " 30,000
T-310 blend/ storage " " " " 20,000
T-311 blend/ storage " " " " 30,000
T-323 storage Bulk 0.250 " " 150,000

7. Proposed New Tanks

Modified 12/06/93

The permittee will be authorized to blend/store liquid wastes accepted for incineration in the approved tanks listed below, as delineated in Condition 1 of Section II of this permit, subject to Department approval of final construction in accordance with Specific Condition 6 of Section II of this permit. The approved tanks are as follows:

<table>
<thead>
<tr>
<th>Tank Number</th>
<th>Primary Function</th>
<th>Minimum Metal Thickness (inches)</th>
<th>Permitted Storage Capacity (gallons)</th>
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<tbody>
<tr>
<td>T-305</td>
<td>Blend/ storage</td>
<td>Shell 0.1875 0.240 0.123</td>
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<td>Bottom 0.123</td>
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<td>Top 0.123</td>
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<td>T-306</td>
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<td>Shell 0.1875 0.240 0.123</td>
<td>40,000</td>
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<td></td>
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<td>Bottom 0.123</td>
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<td>Top 0.123</td>
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<td>T-307</td>
<td>blend/ storage</td>
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<td>20,000</td>
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<td></td>
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<td>Bottom 0.123</td>
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</tr>
<tr>
<td>T-390</td>
<td>blend/ storage</td>
<td>Shell 0.250 0.250 0.250</td>
<td>3,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bottom 0.250</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Top 0.250</td>
<td></td>
</tr>
</tbody>
</table>

(Modified Condition 2(a)8 02/27/96)
(Modified Condition 2(a)8 10/31/96)

8. Storage/Treatment Areas for Containerized Wastes to be Transferred Off-Site

The permittee is authorized to store, treat and consolidate hazardous and non-hazardous wastes of the types listed in Conditions 3(a) and 3(b) of Section II of this permit in containers prior to transfer of the waste off-site to an authorized facility.
Storage of the waste to be transferred off-site is authorized in all waste container storage areas authorized by Condition 2(a) of Section II of this permit, with the exceptions of the Kiln Staging Area and the Eductor Storage Area which shall only be used for storage of wastes scheduled to be incinerated on-site. Authorized treatment activities are limited to bulking, blending and repacking of wastes to be transferred. Bulking, blending, repacking and consolidation activities shall take place only in the storage areas authorized above.

9. Existing Storage Areas for Non-Hazardous Waste

1. The permittee is authorized to store non-hazardous wastes in van trailers in the following areas:

   a. Area adjacent to the area designated as truck trailer parking on the proposed facility plan L016-CC-02-D and the area located approximately one hundred fifty (150) feet north of the phase I tank farm.

   Fourteen (14) van trailers maximum.

(Modified 12/06/93)

10. Drum Crusher

The permittee is authorized to operate a drum crusher located in the old cyanide area, for drums which have been rendered empty in accordance with N.J.A.C. 7:26-8.4. Crushed drums and drum lids which do not contain hazardous wastes shall be containerized and shipped off-site for disposal. Drums not meeting the definition of empty, or which contained any of the acutely hazardous wastes listed in N.J.A.C. 7:26-8.15(e) and have not been rendered empty in accordance with N.J.A.C. 7:26-8.4(b)3 shall be manifested off-site to an authorized hazardous waste treatment, storage or disposal facility.

(Added 9/29/89)

11. Proposed Storage Area for Containerized Waste and Liquified Petroleum Gas (LPG) Tank Trailers to be Educted*

The permittee is authorized to store containerized waste liquids and gases of the types listed in Conditions 3(a) and 3(b) of Section II of this permit and to spot LPG tank trailers in the following area:

<table>
<thead>
<tr>
<th>Storage Area</th>
<th>Minimum Base Thickness (inches)</th>
<th>Permitted Storage Capacity</th>
<th># of 55 gallon drums</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rotary Kiln</td>
<td>6</td>
<td>660 gallons</td>
<td>12</td>
</tr>
<tr>
<td>Eductor Storage Pad</td>
<td></td>
<td>12-1 ton gas cylinders</td>
<td></td>
</tr>
</tbody>
</table>
12. Proposed Storage Areas for Dump Trailers, Box Trailers, Tank Trailers, and Containerized Waste

The permittee will be authorized to store dump trailers, box trailers, tank trailers, roll-offs and containers which vary in size from one (1) to three hundred fifty (350) gallons of waste of the types listed in Condition 3(a) and 3(b) of Section II of this permit and to load and unload to or from trucks, vans and tankers waste of the types listed in Conditions 3(a) and 3(b) of Section II of this permit in the areas described below, as delineated in Condition I of Section II of this permit. This authorization is subject to the submittal of a letter in accordance with Condition 6(e) of Section II of this permit and the Department's approval that the construction is complete and in accordance with the drawings, specifications and calculations approved by the Department, as delineated in Condition 1 of Section II of this permit.

<table>
<thead>
<tr>
<th>Storage Area</th>
<th>Minimum Base Thickness (Inches)</th>
<th>Permitted Storage Capacity (Gallons)</th>
<th>Container Capacity (Gallons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage Area E1</td>
<td>9</td>
<td>170,000</td>
<td>17</td>
</tr>
<tr>
<td>Container Storage Area E2</td>
<td>9</td>
<td>80,000</td>
<td>8</td>
</tr>
<tr>
<td>Container Storage Area G</td>
<td>9</td>
<td>17,240</td>
<td>*</td>
</tr>
</tbody>
</table>

* Storage is limited to van trailers and bulk containers. A maximum of three (3) van trailers may be parked in the area at one time. The maximum size of any bulk container shall be twenty (20) cubic yards.

(b) Blending

1. The permittee is authorized to blend containerized and bulk shipments of liquid wastes of the waste types specified in Conditions 3(a) and (b) of Section II in tanks with agitators prior to injection to the incineration system. Before blending any liquid wastes, the permittee shall analyze the waste in accordance with the waste analysis plan (January 1988, Revision 2) to determine if the waste is compatible with the material already in storage and if the waste is compatible with the materials of construction of the storage tank. A written record of each compatibility test and results shall be included in the facility operating record pursuant to Condition 16 of Section I of this permit.

(Modified 04/08/92)
2. The permittee is authorized to educt or vacuum liquid hazardous wastes from containers into tanks for blending in accordance with Condition 2(b)1 of Section II of this permit at the Covered Drum Pad and the proposed container storage building. The containers emptied in the Drum Pad storage area shall be educted or vacuumed in the Drum Pad's treatment area. Containers emptied at the proposed container storage building shall be educted or vacuumed into a tank truck and transferred to the intended blend/storage tank.

(c) Incineration

<table>
<thead>
<tr>
<th>Modified Condition</th>
<th>1. Existing Incinerator</th>
</tr>
</thead>
<tbody>
<tr>
<td>09/14/92</td>
<td>The permittee is authorized to operate a commercial hazardous waste incineration system. The incineration system, as delineated in Condition 1 of Section II of this permit, includes the Rotary Kiln, the Afterburner, and the Loddy Burner. The incinerator may process only solid, semi-solid, liquid and gaseous hazardous and non-hazardous waste streams, as delineated in Condition 3 of Section II of this permit.</td>
</tr>
</tbody>
</table>

The permittee is authorized to install an oxygen enrichment lance in the front end wall of the rotary kiln and an oxygen enrichment lance in the afterburner chamber as described in the Oxygen Enrichment Program Study Report referenced in Condition 1(a)3. of Section II of this permit.

2. Proposed Rotary Reactor

(a) The permittee shall be authorized to incinerate solids, semi-solids and liquids in the Rotary Reactor, as delineated in Condition 1 of Section II of this permit, subject to Department approval of final design and construction in accordance with Condition 6 of Section II of this permit and performance of an acceptable trial burn test in accordance with the following:

i. The permittee shall submit a revised Trial Burn Plan six (6) months prior to the completion of construction of the proposed Rotary Reactor. The trial burn plan shall be for the entire incineration system as it will exist following the installation of the Rotary Reactor.

ii. The permittee may operate the proposed Rotary Reactor, including the rest of the incineration system, during the pre-trial burn period (the period beginning with the initial introduction of hazardous waste into the Rotary Reactor, ending with the
start of the trial burn, and lasting up to seven hundred twenty (720) hours. While incinerating hazardous wastes during the pre-trial burn period, the Rotary Reactor shall operate under the conditions specified in the trial burn plan and the rest of the system shall operate in accordance with the operating requirements specified in Condition 2 (c)4 of Section II.

iii. The permittee may petition the Department for one extension of the shakedown period for up to seven hundred twenty (720) additional hours. The Department may grant the extension if good cause is demonstrated in the petition.

iv. The permittee shall conduct a trial burn on the incineration system in accordance with N.J.A.C. 7:26-12.9(b), an approved Trial Burn Permit and the Trial Burn Plan so as to verify that the system is able to achieve the performance standards specified in Condition 2(c)3 of Section II.

v. The permittee may continue to burn hazardous wastes in the incineration system during the post-trial burn period (the period starting immediately following the completion of the trial burn and ending with the specification of system operating conditions). While incinerating hazardous wastes during the post-trial burn period, the incineration system shall operate under the conditions specified by the Department in the approved Trial Burn Permit, unless:

(1) The permittee determines, based upon analytical results of the trial burn data, that the incineration system failed to achieve any one of the performance standards specified in Condition 2(c)3 of Section II. Upon such determination, the permittee shall notify the Department within twenty-four (24) hours and the permittee shall cease operation of the Rotary Reactor. The remainder of the incineration system may continue operation in accordance with the operations requirements specified in Condition 2(c)4 of Section II. The permittee may apply to the Department for a new trial burn pursuant to the hazardous waste management regulations of the Department; or
(2) The permittee fails to submit information or certification(s) within the time periods specified in the Trial Burn Permit. In such event, permittee shall cease operation of the incineration system.

vi. The Department, after evaluation of the results of a trial burn, may impose changes in the operating requirements of the incineration system specified in Condition 2(c)4 of Section II of this permit.

3. Performance Standards

The permittee shall construct and maintain the incineration system so that, when operated in accordance with operating requirements specified in Condition 4 of Section II, it will meet the performance standards for hazardous waste incinerators under N.J.A.C. 7:26-10.7(d)1.

Compliance with operating requirements specified in Condition 4 of Section II will be regarded as compliance with the performance standards of N.J.A.C. 7:26-10.7(d)1. However, evidence that compliance with such permit conditions is insufficient to ensure compliance with the performance standards may be justification to modify, revoke or reissue the permit pursuant to N.J.A.C. 7:26-12.6.

4. Operating Conditions of the Existing Incineration System

(a) During initial start-up of the incinerator, only #2 fuel oil, natural gas or Department-approved waste liquid shall be fed into the system. Hazardous waste may be fed into the system once the incinerator is operating within the requirements specified in paragraph (b) below.

(Modified 9/29/89)

(b) The permittee shall feed hazardous and non-hazardous wastes detailed in Condition 3 of Section II into the incineration system under the following conditions:

i. Total heat release, including the hazardous and non-hazardous waste feed rate and auxiliary fuel to each component of the incineration system shall be limited to the maximum specified in Table 1.

ii. Combustion zone temperature in each component of the incineration system shall be limited to the minimum specified in
### Table 1

<table>
<thead>
<tr>
<th></th>
<th>Rotary Kiln</th>
<th>Loddby Burner</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maximum Heat Release</strong></td>
<td>35</td>
<td>90</td>
</tr>
<tr>
<td><strong>Minimum Combustion Zone Temperature (°F)</strong></td>
<td>1,600*</td>
<td>N.A.</td>
</tr>
</tbody>
</table>

*Minimum temperature for the introduction of kiln solids only.

**Subject to modification of the DEQ Permit.

iii. Total waste feed rates to each component of the incineration system are based upon the trial burn tests performed in September and October of 1986 and June and July of 1988 and shall be limited to the following maximum values:

<table>
<thead>
<tr>
<th>Component</th>
<th>Maximum Waste Feedrate (lbs/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rotary Kiln</td>
<td>7,000</td>
</tr>
<tr>
<td>Loddby Burner</td>
<td>6,875</td>
</tr>
<tr>
<td>Afterburner</td>
<td>4,800</td>
</tr>
</tbody>
</table>

*Sum of total feed rates not to exceed 15,575 lbs/hr of organics.

*Subject to modification of the DEQ permit to reflect this value.

(Modified Condition 2(c)4(b)iv 04/01/93)

iv. The ash content of the liquid waste feed shall not be greater than four percent (4%) by weight.

v. The total halogen content of the waste shall not exceed two thousand six hundred seventy five (2,675) lbs/hr.

vi. The total sulfur content of the waste shall not exceed six hundred seventy five (675) lbs/hr.

vii. The carbon monoxide levels (corrected to seven (7) percent oxygen on a dry basis) in the stack gas shall be five hundred (500) ppm or less on a ten (10) minute rolling average or one hundred (100) ppm
or less on a (60) minute rolling average.

viii. Oxygen content of the incinerator hot duct shall be three percent (3%) or greater.

 ix. Water flow to the Calvert Venturi Scrubber shall be four hundred fifty-five (455) gallons per minute or greater.

x. Water flow to the absorber/cooler shall be two thousand (2000) gallons per minute or greater.

xi. Sufficient water shall be injected into the saturator to maintain a temperature of less than one hundred ninety degrees fahrenheit (190°F) going into the Calvert Venturi scrubber.

xii. Scrubber water effluent pH from the Venturi scrubber shall be greater than a pH 5.

xiii. Scrubber differential pressure drop shall be maintained at no less than forty (40) inches of water.

xiv. Fugitive emissions from the Rotary Kiln, Afterburner and Loddby Burner shall be controlled by maintaining a negative pressure in each component.

xv. Residence time of the Afterburner shall be a minimum of two (2) seconds.

xvi. All conditions and provisions of the "Permit to Construct, Install or Alter Control Apparatus or Equipment and Certificate to Operate Control Apparatus or Equipment" as required by N.J.A.C. 7:27-8 shall be fulfilled.

xvii. All components connected or attached to, or serving the equipment and/or control apparatus are functioning properly and are in use in accordance with the "Permit to Construct, Install or Alter Control Apparatus or Equipment and Certificate to Operate Control Apparatus or Equipment" as required by N.J.A.C. 7:27-8.

xviii. When operating the kiln in a slagging mode or at a kiln exit temperature of greater than one thousand eight hundred degrees fahrenheit (1800°F), the following heavy metal limitations shall apply:

| Heavy Metal | Allowable Stack | Allowable Heavy | Allowable |
Heavy Emission Rate (Pounds Per Hour) Metal in Liquid or Gaseous Waste Feed (Pounds Per Hour) Metal in Solid Waste Feed (Pounds Per Hour)

<table>
<thead>
<tr>
<th></th>
<th>Arsenic</th>
<th>Beryllium</th>
<th>Cadmium</th>
<th>Chromium</th>
<th>Lead</th>
<th>Mercury</th>
<th>Nickel</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.024</td>
<td>0.00092</td>
<td>0.038</td>
<td>0.045</td>
<td>0.26</td>
<td>0.18</td>
<td>0.04</td>
</tr>
<tr>
<td></td>
<td>0.40</td>
<td>0.015</td>
<td>0.63</td>
<td>0.75</td>
<td>4.30</td>
<td>0.18</td>
<td>0.67</td>
</tr>
<tr>
<td></td>
<td>0.50</td>
<td>0.019</td>
<td>0.79</td>
<td>0.94</td>
<td>5.40</td>
<td>0.18</td>
<td>0.84</td>
</tr>
</tbody>
</table>

(c) Any condition occurring which causes the incineration system to deviate from the operating parameters specified in paragraph (b) above, shall be cause for immediate cessation of waste feed to the system. Any such cessation of waste feed shall be indicated in the operating record required in General Condition 16 of this permit with the necessary action that was initiated to correct the situation, if any.

5. Automatic Waste Feed Cut Offs

The permittee shall construct, maintain and calibrate the systems specified below to automatically cut off all waste to the incinerator including solids, liquids and gases at the levels specified below:

(Modified 9/29/89)

(Modified 09/14/92) a. Oxygen less than three percent (3%) in the hot duct with a 15 second delay.

b. Loss of flame at any burner as measured by fire eye flame sensors. (The waste feed need only be terminated in the burner where flameout occurs.)

(Modified Condition 2(c)5c 10/31/96)

c. Water flow to the Calvert Venturi Scrubber of less than four hundred fifty-five (455) gallons per minute.

d. Water flow to the absorber/cooler of less than two thousand (2,000) gallons per minute.

e. Exhaust gases exiting the saturator greater than one hundred ninety degrees fahrenheit (190°F).

f. Loss of negative pressure in the secondary combustion chamber.

g. Vacuum in the absorber above fifteen (15) inches of water.
h. Electrical power failure.

i. Scrubber differential pressure drop below forty (40) inches of water.

j. Combustion zone temperature less than two thousand degrees fahrenheit (2,000°F): (monitored in the hot duct).

k. Induced draft fans experiencing axial vibration greater than seven (7) mils.

l. Carbon monoxide levels (corrected to seven (7) percent oxygen on a dry basis) in the stack gas greater than five hundred (500) ppm on a ten (10) minute rolling average or one hundred (100) ppm on a sixty (60) minute rolling average.

m. The emergency waste feed cut-off systems and associated alarms shall be tested daily to verify operability.

n. The permittee shall calibrate the emergency waste feed cut-off systems according to the manufacturer's specifications.

(Added 09/29/89)
o. Rotary kiln exit temperature greater than two thousand four hundred degrees fahrenheit (2,400°F).

(Added 09/29/89)
p. Afterburner temperature monitored at the target wall greater than two thousand four hundred degrees fahrenheit (2,400°F).

6. Monitoring
(Modified 09/29/89)
The permittee shall construct, maintain and calibrate monitoring equipment as specified below:

<table>
<thead>
<tr>
<th>System</th>
<th>Frequency of Monitoring</th>
<th>Frequency of Calibration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Afterburner Temperature</td>
<td>Continuous</td>
<td></td>
</tr>
<tr>
<td>Manufacturer's specifications</td>
<td>Monitored at the target wall</td>
<td></td>
</tr>
<tr>
<td>Rotary Kiln Exit Temperature</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>Hot Duct Temperature</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>Mass flow rate of liquid waste to the Rotary Kiln</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>Mass flow rate</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
</tbody>
</table>
of liquid waste to the Loddby burner

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mass flow rate of liquid waste</td>
<td></td>
</tr>
<tr>
<td>to the afterburner</td>
<td></td>
</tr>
<tr>
<td>Auxiliary fuel feed rate</td>
<td></td>
</tr>
<tr>
<td>Scrubber pH</td>
<td></td>
</tr>
<tr>
<td>Hot duct concentration of oxygen</td>
<td></td>
</tr>
<tr>
<td>Stack gas concentration of sulfur dioxide</td>
<td></td>
</tr>
<tr>
<td>Stack gas concentration of total hydrocarbons</td>
<td></td>
</tr>
<tr>
<td>Stack gas concentration of carbon monoxide</td>
<td></td>
</tr>
</tbody>
</table>

7. Ancillary Incinerator Equipment

(a) The permittee is authorized to use Positive Displacement Pumps to off load and feed sludges, soils, semi-solids and other viscous media directly to the Rotary Kiln and Rotary Reactor from tote bins and tank trucks and containers authorized in Condition 2(a)1 of this section.

(b) The permittee is authorized to use the Direct Burn Areas to off load and directly feed to the incineration system wastes which are specified in Specific Condition 3.

(c) The permittee is authorized to incinerate gases from both tank trailers and gas cylinders. The gases are to be introduced into the system under pressure, which may be supplied by pressure of the gases as received or as educted. The permittee is also authorized to educt or vacuum liquids from drums at the educt area located adjacent to the loddby liquid injection system.

(d) The permittee is authorized to educt liquids and gases from containers authorized in Condition 2(a)1 of this section and from liquidfied petroleum gas tank trailers at the proposed
rotary kiln eductor.

(e) The permittee is authorized to transfer, under manifests, hazardous wastes of the types listed in Condition 3(a) and 3(b) of Section II to off-site authorized facilities.

*To be replaced by the proposed rotary kiln eductor. (Modified 9/29/89)

(d) Incineration Residues

1. The permittee is authorized to store treated scrubber wastewater prior to discharge to Racoon Creek on the outgoing tide pursuant to their NJPDES Surface Water Discharge Permit in the following tanks:

<table>
<thead>
<tr>
<th>Tank Number (gallons)</th>
<th>Primary Function</th>
<th>Location</th>
<th>Minimum Shell Thickness (inches)</th>
<th>Permitted Storage Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>V-327</td>
<td>Scrubber Process Water Storage Tank Area</td>
<td>1/4</td>
<td>1,151,610</td>
<td></td>
</tr>
<tr>
<td>V-328</td>
<td></td>
<td></td>
<td></td>
<td>1,151,610</td>
</tr>
<tr>
<td>V-329</td>
<td></td>
<td></td>
<td></td>
<td>1,151,610</td>
</tr>
</tbody>
</table>

2. The permittee is authorized to store or process scrubber waste water in the following process equipment or associated tanks and vessels:

<table>
<thead>
<tr>
<th>Tank Number (gallons)</th>
<th>Primary Function</th>
<th>Location</th>
<th>Permitted Storage Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>V-319</td>
<td>Scrubber Water Pump Tank Area</td>
<td>Scrubber Water Handling</td>
<td>10,000</td>
</tr>
<tr>
<td>V-316</td>
<td>Neutralization Tank</td>
<td></td>
<td>40,000</td>
</tr>
<tr>
<td>V-317</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>V-321</td>
<td>Scrubber Water Clarifier</td>
<td></td>
<td>250,000</td>
</tr>
<tr>
<td>V-322</td>
<td>Scrubber Water Pump Tank</td>
<td></td>
<td>40,000</td>
</tr>
<tr>
<td>V-333</td>
<td>Reaction Tank</td>
<td>Process Tank Area</td>
<td>15,000</td>
</tr>
<tr>
<td>V-334</td>
<td>Reaction Tank</td>
<td></td>
<td>15,000</td>
</tr>
</tbody>
</table>
The permittee is authorized to accumulate/store incinerator ash and scrubber sludge in containers in the areas listed below, as delineated in Condition 1 of Section II, prior to shipment of the waste off-site to an authorized facility:

<table>
<thead>
<tr>
<th>Storage Area</th>
<th>Minimum Base Thickness (inch)</th>
<th>Permitted Storage Capacity (gallons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ash</td>
<td>6</td>
<td>12,120</td>
</tr>
<tr>
<td>Scrubber Sludge Containment Area</td>
<td>6</td>
<td>12,120</td>
</tr>
<tr>
<td>Container Storage Area E₁</td>
<td>9</td>
<td>170,000</td>
</tr>
<tr>
<td>Container Storage Area E₂</td>
<td>9</td>
<td>80,000</td>
</tr>
</tbody>
</table>
(e) Ancillary Equipment

1. Shredder and Feed System

The permittee is authorized, subject to Department approval of final construction in accordance with Condition 6 of Section II of this permit, to operate a shredder and feed system as delineated in drawings and plans referenced in Condition 1(a)2 of Section II of this permit. The shredder and its associated feed system to the incinerator shall be designed, operated and maintained to prevent fugitive emissions from this equipment.

2. Proposed Extruder and Disperser Tank

The permittee is authorized, subject to Department approval of final construction in accordance with Condition 6 of Section II of this permit to operate an extruder and disperser tank as delineated on the drawings referenced in Condition 1(a)2 of Section II of this permit. The extruder disperser tank is authorized to handle all waste types listed in Conditions 3(a) and 3(b) of Section II of this permit. The disperser tank shall have a maximum capacity of 1,200 gallons and shall be maintained with a minimum shell thickness of 0.25 inches.

3. Proposed Viscosity Reduction Station

The permittee is authorized, subject to Department approval of final construction in accordance with Condition 6 of Section II of this permit, to operate a viscosity reduction station. The unit is authorized to hold a maximum of four 55 gallon steel drums. With introduction of steam in coils, the box may be heated to a maximum temperature of 275°F.

3. Authorized Wastes

(a) Hazardous Wastes Accepted for Storage, Treatment and/or Transfer

The permittee is authorized to accept the following hazardous wastes for storage, treatment and/or transfer as authorized by Condition 2 of Section II of this permit:

<table>
<thead>
<tr>
<th>NJDEP Hazardous Waste Number</th>
<th>Description of Hazardous Waste</th>
</tr>
</thead>
<tbody>
<tr>
<td>D001</td>
<td>Ignitable, not otherwise classified</td>
</tr>
<tr>
<td>D002</td>
<td>Corrosive, not otherwise classified</td>
</tr>
<tr>
<td>D003</td>
<td>Reactive, not otherwise classified</td>
</tr>
</tbody>
</table>

(The permittee shall not accept a solid waste that exhibits characteristics of reactivity if a representative sample of the waste
has any of the following properties:

1. It forms potentially explosive mixtures with water.

2. It is capable of detonation or explosive reaction if it is subjected to a strong initiating source or if heated under confinement.

3. It is readily capable of detonation or explosive decomposition or reaction at standard temperature and pressure.

4. It is a forbidden explosive as defined in 49 CFR 173.51, or a Class A explosive as defined in 49 CFR 173.53 or a Class B explosive as defined in 49 CFR 173.88.)

(Modified 04/04/91)

D004 Toxicity Characteristic of Arsenic by the Toxicity Characteristic Leaching Procedure (TCLP) Test
D005 Toxicity Characteristic of Barium by the TCLP Test
D006 Toxicity Characteristic of Cadmium by the TCLP Test
D007 Toxicity Characteristic of Chromium by the TCLP Test
D008 Toxicity Characteristic of Lead by the TCLP Test
D009 Toxicity Characteristic of Mercury by the TCLP Test
D010 Toxicity Characteristic of Selenium by the TCLP Test
D011 Toxicity Characteristic of Silver by the TCLP Test
D012 Toxicity Characteristic of Endrin (1,2,3,4,10,10-hexachloro-1,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4-endo-endo-5, 8-dimethano naphthalene) by the TCLP Test
D013 Toxicity Characteristic of Lindane (1,2,3,4,5,6-hexachloro-cyclohexane, gamma isomer) by the TCLP Test
D014 Toxicity Characteristic of Methoxychlor (1,1,1, trichloro, 2,2-bis(p-methoxy phenyl)) ethane by the TCLP Test
D015 Toxicity Characteristic of Toxaphene (C_{10}H_{10}Cl_{18}) by the TCLP Test
D016 Toxicity Characteristic of 2,4-D, (2,4-Dichlorophenoxy acetic acid) by the TCLP Test
D017 Toxicity Characteristic of 2,4,5-TP Silvex (2,4,5-Trichlorophenoxypropionic acid) by the TCLP Test
D018 Toxicity Characteristic of Benzene by the TCLP Test
D019 Toxicity Characteristic of Carbon Tetrachloride by the TCLP Test
D020 Toxicity Characteristic of Chlordane by the TCLP Test
D021 Toxicity Characteristic of Chlorobenzene by the TCLP Test
D022 Toxicity Characteristic of Chloroform by the TCLP Test
D023 Toxicity Characteristic of o-Cresol by the TCLP Test
D024 Toxicity Characteristic of m-Cresol by the TCLP Test
D025 Toxicity Characteristic of p-Cresol by the TCLP Test
D026 Toxicity Characteristic of Cresol by the TCLP Test
D027 Toxicity Characteristic of 1,4-Dichlorobenzene by the TCLP Test
D028 Toxicity Characteristic of 1,2-Dichloroethane by the TCLP Test
D029 Toxicity Characteristic of 1,1-Dichloroethylene by the TCLP Test
D030 Toxicity Characteristic of 2,4-Dinitrotoluene by the TCLP Test
D031 Toxicity Characteristic of Heptachlor (and its Epoxide) by the TCLP Test
D032 Toxicity Characteristic of Hexachlorobenzene by the TCLP Test
D033 Toxicity Characteristic of Hexachloro-1,3 Butadiene by the TCLP Test
D034 Toxicity Characteristic of Hexachloroethane by the TCLP Test
D035 Toxicity Characteristic of Methyl Ethyl Ketone by the TCLP Test
D036 Toxicity Characteristic of Nitrobenzene by the TCLP Test
D037 Toxicity Characteristic of
Pentachlorophenol by the TCLP Test

D038 Toxicity Characteristic of Pyridine by the TCLP Test

D039 Toxicity Characteristic of Tetrachloroethylene by the TCLP Test

D040 Toxicity Characteristic of Trichloroethylene by the TCLP Test

D041 Toxicity Characteristic of 2,4,5-Trichlorophenol by the TCLP Test

D042 Toxicity Characteristic of 2,4,6-Trichlorophenol by the TCLP Test

D043 Toxicity Characteristic of Vinyl Chloride by the TCLP Test

F001 The following spent halogenated solvents used in degreasing:
tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, and chlorinated fluorocarbons; all spent solvent mixtures/blends used in degreasing containing, before use, a total of 10 percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F002, F004 and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.

F002 The following spent halogenated solvents: tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,2-trichloro-1,2,2-trifluoroethane, o-dichlorobenzene, trichlorofluoromethane, and 1,1,2-trichloroethane; all spent solvent mixtures/blends containing, before use, a total of 10 percent or more (by volume) of one or more of the above halogenated solvents or those listed in F001, F004, or F005; and the still bottoms from the recovery of these spent solvents and spent solvent mixtures.

F003 The following spent non-halogenated solvents: xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether,
methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/blends containing, before use, a total of 10 percent or more (by volume) of one or more of the non-halogenated solvents listed above or those solvents listed in F001, F002, F004 and F005; and the still bottoms from the recovery of these spent solvents and spent solvent mixtures.

F004
The following spent non-halogenated solvents: cresols and cresylic acid, and nitrobenzene; all spent solvent mixtures/blends containing, before use, a total of 10 percent or more (by volume) of the above non-halogenated solvents or those solvents listed in F001, F002, and F005; and all still bottoms from the recovery of these spent solvents and spent solvent mixtures.

F005
The following spent non-halogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane; all spent solvent mixtures/blends containing, before use, a total of 10 percent or more (by volume) of one or more of the non-halogenated solvents listed above or those solvents listed in F001, F002 or F004; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.

F006
Wastewater treatment sludges from electroplating operations except from the following processes: (1) sulfuric acid anodizing of aluminum; (2) tin plating on carbon steel; (3) zinc plating (segregated basis) on carbon steel; (4) aluminum or zinc-aluminum plating on carbon steel; (6) chemical etching and milling of aluminum.

F007
Spent plating bath solutions from electroplating operations.

F008
Plating bath sludges from the bottom of plating baths from electroplating operations where cyanides are used in the process.

F009
Spent stripping and cleaning and bath solutions from electroplating operations
where cyanides are used in the process.

F010 Quenching bath sludge from oil baths from metal heat treating operations where cyanides are used in the process.

F011 Spent cyanide solutions from salt bath pot cleaning from metal heat treating operations.

F012 Quenching wastewater treatment sludges from metal heat treating operations where cyanides are used in the process.

(Added 10/31/96) F019 Wastewater treatment sludges from the chemical conversion coating of aluminum except from zirconium phosphating in aluminum can washing when such phosphating is an exclusive conversion coating process.

(Added 10/31/96) F024 Process wastes, including but not limited to, distillation residues, heavy ends, tars, and reactor cleanout wastes, from the production of certain chlorinated aliphatic hydrocarbons by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution. (This listing does not include wastewaters, wastewater treatment sludges, spent catalysts, and wastes listed in N.J.A.C. 7:26-8.14.)

(Added 10/31/96) F025 Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.

(Modified 06/28/91) F032 Wastewaters, process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that currently use or have previously used chlorophenolic formulations (except potentially cross-
contaminated wastes that have had the F032 waste code deleted in accordance with 40 CFR 261.35 and where the generator does not resume or initiate use of chlorophenolic formulations). This listing does not include K001 bottom sediment sludge from the treatment of waste water from wood preserving processes that use creosote
and/or pentachlorophenol.

F034 Wastewaters, process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use creosote formulations. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.

F035 Wastewaters, process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use inorganic preservatives containing arsenic or chromium. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.

F037 Petroleum refinery primary oil/water/solids separation sludge-Any sludge generated from the gravitation separation of oil/water/solids during the storage or treatment of process wastewaters and oily cooling wastewaters from petroleum refineries. Such sludges include, but are not limited to, those generated in: oil/water/solids separators; tanks and impoundments; sumps; and stormwater units receiving dry weather flow. Sludges generated in stormwater units that do not receive dry weather flow, sludges generated in aggressive biological treatment units as defined in 40 CFR 261.31(b)(2) (including sludges generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units) and K051 wastes are exempted from this listing.

F038 Petroleum refinery secondary (emulsified) oil/water/solids separation sludge-Any sludge and/or float generated from the physical and/or chemical separation of oil/water/solids in process wastewaters and oily cooling wastewaters from petroleum refineries. Such wastes include, but are not limited to, all sludges and floats generated in: induced air flotation (IAF) units, tanks and impoundments, and all sludges generated in DAF units. Sludge generated in stormwater units that do not receive dry weather flow, sludge generated in aggressive
biological treatment units as defined in 40 CFR 261.31(b)(2) (including sludges generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units) and F037, K048, and K051 wastes are exempt from this listing.

(Modified 04/04/91) F039 Multi-source leachate, leachate that is derived from the treatment, storage or disposal of more than one listed hazardous waste.

K001 Bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.

K002 Wastewater treatment sludge from the production of chrome yellow and orange pigments.

K003 Wastewater treatment sludge from the production of molybdate orange pigments.

K004 Wastewater treatment sludge from the production of zinc yellow pigments.

K005 Wastewater treatment sludge from the production of chrome green pigments.

K006 Wastewater treatment sludge from the production of chrome oxide green pigments (anhydrous and hydrated).

K007 Wastewater treatment sludge from the production of iron blue pigments.

K008 Oven residue from the production of chrome oxide green pigments.

K009 Distillation bottoms from the production of acetaldehyde from ethylene.

K010 Distillation side cuts from the production of acetaldehyde from ethylene.

K011 Bottom stream from the wastewater stripper in the production of acrylonitrile.

K013 Bottom stream from the acetronitrile column in the production of acrylonitrile.

K014 Bottoms from the acetronitrile purification column in the production of acrylonitrile.

K015 Still bottoms from the distillation of benzyl chloride.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>K016</td>
<td>Heavy ends or distillation residues from the production of carbon tetrachloride.</td>
</tr>
<tr>
<td>K017</td>
<td>Heavy ends (still bottoms) from the purification column in the production of epichlorohydrin.</td>
</tr>
<tr>
<td>K018</td>
<td>Heavy ends from fractionation in ethyl chloride production.</td>
</tr>
<tr>
<td>K019</td>
<td>Heavy ends from the distillation of ethylene dichloride in ethylene dichloride production.</td>
</tr>
<tr>
<td>K020</td>
<td>Heavy ends from the distillation of vinyl chloride in vinyl chloride monomer production.</td>
</tr>
<tr>
<td>K021</td>
<td>Aqueous spent antimony catalyst waste from fluoromethanes production.</td>
</tr>
<tr>
<td>K022</td>
<td>Distillation bottom tars from the production of phenol/acetone from cumene.</td>
</tr>
<tr>
<td>K023</td>
<td>Distillation lights ends from the production of phthalic anhydride from napthalene.</td>
</tr>
<tr>
<td>K024</td>
<td>Distillation bottoms from the production of phthalic anhydride from napthalene.</td>
</tr>
<tr>
<td>K025</td>
<td>Distillation bottoms from the production of nitro-benzene by the nitration of benzene.</td>
</tr>
<tr>
<td>K026</td>
<td>Stripping still tails from the production of methyl ethyl pyridines.</td>
</tr>
<tr>
<td>K027</td>
<td>Centrifuge and distillation residues from toluene diisocyanate production.</td>
</tr>
<tr>
<td>K028</td>
<td>Spent catalyst from the hydrochlorinator reactor in the production of 1,1,1-trichlorethane.</td>
</tr>
<tr>
<td>K029</td>
<td>Waste from the production streams stripper in the production of 1,1,1-trichlorethane.</td>
</tr>
<tr>
<td>K030</td>
<td>Column bottoms or heavy ends from the combined production of trichloroethylene and perchloroethylene.</td>
</tr>
<tr>
<td>K031</td>
<td>By-products salts generated in the production of MSMA and cacodylic acid.</td>
</tr>
</tbody>
</table>
K032 Wastewater treatment sludge from the production of chlordane.

K033 Wastewater and scrub water from the chlorination of cyclopentadiene in the production of chlordane.

K034 Filter solids from the filtration of hexachlorocyclopentadiene in the production of chlordane.

K035 Wastewater treatment sludges generated in the production of creosote.

K036 Still bottoms from toluene reclamation distillation in the production of disulfoton.

K037 Wastewater treatment sludges from the production of disulfoton.

K038 Wastewater from the washing and stripping of phorate production.

K039 Filter cake from the filtration of diethylphosphorodithoric acid in the production of phorate.

K040 Wastewater treatment sludge from the production of phorate.

K041 Wastewater treatment sludge from the production of toxaphene.

K042 Heavy ends or distillation residues from the distillation of tetrachlorobenzene in the production of 2,4,5-T.

K043 2,6 dichlorophenol waste from the production of 2,4-D.

(Added 12/06/93) K044 Wastewater treatment sludges from the manufacturing and processing of explosives.

(Added 12/06/93) K045 Spent carbon from the treatment of wastewater containing explosives.

(Added 12/06/93) K046 Wastewater treatment sludges from the manufacturing, formulation and loading of lead based initiating compounds.

(Added 12/06/93) K047 Pink/red water from TNT operations.

K048 Dissolved air flotation (DAF) float
from the petroleum refining industry.

K049 Slop oil emulsion solids from the petroleum refining industry.

K050 Heat exchanger bundle cleaning sludge from the petroleum refining industry.

K051 API separator sludge from the petroleum refining industry.

K052 Tank bottoms (leaded) from the petroleum refining industry.

(Added 12/06/93) k060 Ammonia still lime sludge from coking operations

(Added 12/06/93) K061 Emission control dust/sludge from the primary production of steel in electric arc furnaces.

(Added 12/06/93) K062 Spent pickle liquor generated by steel finishing operations of facilities within the iron and steel industry

(Added 12/06/93) K064 Acid plant blowdown slurry/sludge resulting from the thickening of blowdown slurry from primary copper production.

(Added 12/06/93) K065 Surface impoundment solids contained in and dredged from surface impoundments at primary lead smelting facilities.

(Added 12/06/93) K066 Sludge from treatment of process wastewater and/or acid plant blowdown from primary zinc production.

(Added 12/06/93) K069 Emission control dust/sludge from secondary lead smelting.

K071 Brine purifications muds from the mercury cell process in chlorine production, where separately prepurified brine is not used.

K073 Chlorinated hydrocarbon wastes from the purification step of the diaphragm cell process using graphite anodes in chlorine production.

K083 Distillation bottoms from aniline production.

K084 Wastewater treatment sludges generated during the production of veterinary pharmaceuticals from
arsenic or organo-arsenic compounds.

K085 Distillation or fractionation column bottoms from the production of chlorobenzenes.

K086 Solvent washes and sludges, caustic wastes and sludges or water washes and sludges from cleaning tubs and equipment used in the formulation of ink from pigments, driers, soaps, and stabilizers containing chromium and lead.

K087 Decanter tank tar sludge from coking operations.

(Added 12/06/93) K088 Spent potliners from primary aluminum reduction.

(Added 12/06/93) K090 Emission control dust or sludge from ferrochromiumsilicon production

(Added 12/06/93) K091 Emission control dust or sludge from ferrochromium production.

K093 Distillation light ends from the production of phthalic anhydride from ortho-xylene.

K094 Distillation bottoms from the production of phthalic anhydride from ortho-xylene.

K095 Distillation bottoms from the production of 1,1,1-trichlorethane.

(Added 12/06/93) K096 Heavy ends from the heavy ends column from the production of 1,1,1-trichloroethane.

K097 Vacuum stripper discharge from the chlordane chlorinator production of chlordane.

K098 Untreated process wastewater from the production of toxaphene.

K099 Untreated wastewater from the production of 2,4-D.

(Added 12/06/93) K100 Waste leaching solution from acid leaching of emission control dust/sludge from secondary lead smelting.

K101 Distillation tar residues from the distillation of aniline-based compounds in the production of
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>K102</td>
<td>Residue from the use of activated for decolorization in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.</td>
</tr>
<tr>
<td>K103</td>
<td>Process residues from aniline extraction from the production of aniline.</td>
</tr>
<tr>
<td>K104</td>
<td>Combined wastewater streams generated from nitrobenzene/aniline production.</td>
</tr>
<tr>
<td>K105</td>
<td>Separated aqueous stream from the reactor product washing step in the production of chlorobenzenes.</td>
</tr>
<tr>
<td>K106</td>
<td>Wastewater treatment sludge from the mercury cell process in chlorine production.</td>
</tr>
<tr>
<td>K107</td>
<td>Column bottoms from product separation from the production of 1,1-dimethyl-hydrazine (UDMH) from carboxylic acid hydrazines.</td>
</tr>
<tr>
<td>K108</td>
<td>Condensed column overheads from product separation and condensed reactor vent gases from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.</td>
</tr>
<tr>
<td>K109</td>
<td>Spent filter cartridges from product purification from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.</td>
</tr>
<tr>
<td>K110</td>
<td>Condensed column overheads from intermediate separation from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.</td>
</tr>
<tr>
<td>K111</td>
<td>Product wash waters from the production of dinitrotoluene via nitration of toluene.</td>
</tr>
<tr>
<td>K112</td>
<td>Reaction by-product water from the drying of toluenediamine via hydrogenation of dinitrotoluene.</td>
</tr>
<tr>
<td>K113</td>
<td>Condensed liquid light ends from purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.</td>
</tr>
<tr>
<td>K114</td>
<td>Vicinals from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.</td>
</tr>
<tr>
<td>-------</td>
<td>---------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>K115</td>
<td>Heavy ends from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.</td>
</tr>
<tr>
<td>K116</td>
<td>Organic condensate from the solvent recovery column in the production of toluene diisocynate via phosgenation of toluenediamine.</td>
</tr>
<tr>
<td>(Added 12/06/93) K117</td>
<td>Wastewater from the reactor vent gas scrubber in the production of ethylene dibromide via bromination of ethene</td>
</tr>
<tr>
<td>(Added 12/06/93) K118</td>
<td>Spent adsorbent solids from purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene</td>
</tr>
<tr>
<td>(Added 12/06/93) K123</td>
<td>Process wastewater (including supernates, filtrates and washwaters from the production of ethylenebisdithiocarbamic acid and its salts.</td>
</tr>
<tr>
<td>(Added 12/06/93) K124</td>
<td>Reactor vent scrubber water from the production of ethylenebisdithiocarbamic acid and its salts.</td>
</tr>
<tr>
<td>(Added 12/06/93) K125</td>
<td>Filtration, evaporation, and centrifugation solids from the production of ethylenebisdithiocarbamic acid and its salts.</td>
</tr>
<tr>
<td>(Added 12/06/93) K126</td>
<td>Baghouse dust and floor sweepings in milling and packaging operations from the production or formulation of ethylenebisdithiocarbamic acid and its salts.</td>
</tr>
<tr>
<td>(Added 12/06/93) K131</td>
<td>Wastewater from the reactor and spent sulfuric acid from the acid dryer from the production of methyl bromide.</td>
</tr>
<tr>
<td>(Added 12/06/93) K132</td>
<td>Spent absorbent and wastewater separator solids from the production of methyl bromide.</td>
</tr>
<tr>
<td>(Added 12/06/93) K136</td>
<td>Still bottoms from the purification of ethylene dibromide in the</td>
</tr>
</tbody>
</table>
production of ethylene dibromide via bromination of ethene.

(Added 12/06/93) K141 Process residues from the recovery of coal tar, including, but not limited to, tar collecting sump residues from the production of coke from coal or the recovery of coke by-products produced from coal. This listing does not include K087 (decanter tank tar sludge from coking operations).

(Added 12/06/93) K142 Tar storage tank residues from the production of coke from coal or from the recovery of coke by-products produced from coal.

(Added 12/06/93) K143 Process residues from the recovery of light oil, including, but not limited to, those generated in stills, decanters, and wash oil recovery units from the recovery of coke by-products produced from coal.

(Added 12/06/93) K144 Wastewater treatment sludges from light oil refining, including, but not limited to, intercepting or contamination sump sludges from the recovery of coke by-products produced from coal.

(Added 12/06/93) K145 Residues from naphthalene collection and recovery operations from the recovery of coke by-products produced from coal.

(Added 12/06/93) K147 Tar storage tank residues from coal taring refining.

(Added 12/06/93) K148 Residues from coal tar distillation, including, but not limited to, still bottoms.


(Added 12/06/93) K150 Organic liquids (condensates and
decantates) from production of benzotrichloride/benzoyl chloride. Organic liquids (condensates and decantates) from production of dichlorobenzoyl chloride, benzotrichloride, and p-chlorobenzotrichloride. Organic liquids (condensates and decantates) from production of benzoyl chloride, benzotrichloride, and p-chlorobenzotrichloride.

(Assigned 12/06/93) K151 Wastewater treatment sludges from production of one or more chlorinated toluenes.

(Assigned 05/13/99) K169 Crude oil storage tank sediment from petroleum refining operations.

(Assigned 05/13/99) K170 Clarified slurry oil tank sediment and/or in-line filter/separation solids from petroleum refining operations.

(Assigned 05/13/99) K171 Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (this listing does not include inert support media).

(Assigned 05/13/99) K172 Spent hydrorefining catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (this listing does not include inert support media).

X721 Waste automotive crankcase and lubricating oils from automotive service and gasoline stations, truck terminals, and garages.

X722 Waste oil and bottom sludge generated from tank clean-outs from residential/commercial fuel oil tanks.

X723 Waste oil and bottom sludge generated by gasoline stations when gasoline and oil tanks are tested, cleaned, or replaced.

X724 Waste petroleum oil generated when tank trucks or other vehicles or mobile vessels are cleaned, including, but not limited to, oily ballast water from product transport units of boats, barges, ships or other vessels.
Oil spill cleanup residue which: (A) is contaminated beyond saturation; or (B) the generator fails to demonstrate that the spill material was not one of the listed hazardous waste oils.

The following used and unused waste oils; metal working oils; turbine lubricating oils; diesel lubricating oils; and quenching oils.

Bottom sludge generated from the processing, blending, and treatment of waste oil in waste oil processing facilities.

All "P" and "U" hazardous wastes listed in N.J.A.C. 7:26-8.15.

(Deleted 12/06/93)

(Modified "C" list 10/31/96)

All waste streams classified as hazardous waste by the generator or the Department pursuant to N.J.A.C. 7:26-8.6 and 8.7 because the waste stream contains hazardous constituents listed in N.J.A.C. 7:26-8.16 (All "C" hazardous wastes).
(b) Management of Non-Hazardous Wastes

(Modified Condition 3(b)1 10/31/96)

1) The permittee is authorized to accept the following non-hazardous wastes for storage, treatment and/or transfer as authorized by Condition 2 of Section II of this permit:

<table>
<thead>
<tr>
<th>NJDEP Waste Number</th>
<th>Description of Waste</th>
</tr>
</thead>
<tbody>
<tr>
<td>X900</td>
<td>Non-hazardous-Liquid waste: N.O.S.</td>
</tr>
<tr>
<td>X905</td>
<td>Non-hazardous-Gas waste: N.O.S.</td>
</tr>
<tr>
<td>X910</td>
<td>Non-hazardous-Solid waste: N.O.S.</td>
</tr>
</tbody>
</table>

2) All non-hazardous wastes listed in Condition 3(b)1 above shall be managed as hazardous wastes in full compliance with N.J.A.C. 7:26-1 et seq. and the terms of this permit, except the non-hazardous storage area authorized in Condition 2(a)9, Section II.

3) All shipments of non-hazardous wastes shall be accompanied by a completed hazardous waste manifest, using the NJDEP authorized non-hazardous waste numbers listed in Conditions 3(b)1 above.

4) On-site storage of non-hazardous wastes shall be counted toward the permittee's authorized storage capacity.

5) The permittee shall not accept or incinerate Class C explosives as defined in 49 CFR 173.100.

(Deleted Condition 3(c) 10/31/96)

(d) The permittee shall not accept wastes containing polychlorinated biphenyls (PCBs) at a concentration greater than fifty (50) parts per million or greater than any future concentration limit set by Federal Agencies or the Department.

(Modified Condition 4 10/31/96)

4. Waste Analysis and Quality Assurance Requirements

(a) The permittee shall adhere to the provisions of the waste analysis plan cited in Condition 1(b)5 of Section II of this permit, and any subsequent revisions approved by the Department.

(b) Each hazardous waste generated, stored or treated at this location shall be fully identified and classified in accordance with N.J.A.C. 7:26-8.1 et seq. The permittee shall obtain all of the information which must be known to store and treat the waste in accordance with the provisions of this permit, as well as to treat or dispose of the waste at another authorized facility, if applicable.

(c) Pre-acceptance Requirements
1. Prior to authorizing the shipment of lab pack wastes from an off-site source, the permittee shall obtain a Lab Pack Waste Data Sheet from the generator. For lab pack waste that has unknown chemical composition, the permittee shall also obtain a completed Material Characterization Sheet. The Lab Pack Waste Data Sheet and Material Characterization Sheets shall include, at a minimum, the information described in the waste analysis plan referenced in Condition 1(b)5 of Section II of the permit. The permittee shall review the Lab Pack Waste Data Sheets and Material Characterization Sheets to determine if the wastes are acceptable for management at the facility.

2. Prior to authorizing the shipment of waste streams which are to be shipped from a single generator in quantities of ten 55 gallon drums or less and which are to be stored and/or processed at the facility prior to transfer to another authorized facility, the permittee may accept a master Waste Data Sheet that contains general generator information as described in the waste analysis plan referenced in Condition 1(b)5 of Section II of this permit. This type of waste is referred to in the permittee's waste analysis plan as small volume stream (SVS) waste.

Upon receipt of the master Waste Data Sheet, the permittee shall assign a stream number to the generator. Prior to shipment of SVS waste to the permittee, the permittee shall send its authorized representative to the generator's facility to inspect the SVS waste and complete a packing slip for each container of SVS waste. The packing slip shall contain all the information required for pre-acceptance set forth in Condition 4(c)5 of Section II of this permit. If the required pre-acceptance data is not available, the permittee shall not accept the waste. The permittee's authorized representative shall review the pre-acceptance data and shall determine if the waste is acceptable for management at the facility. If the waste is acceptable, the permittee's authorized representative shall assign a category number to each drum of SVS waste and may approve the waste for shipment. The permittee's authorized representative shall assure that a completed packing slip is attached to each SVS waste drum and a copy of the packing slip is attached to the manifest for shipment of the SVS waste to the facility.

The permittee's authorized representative shall be affiliated with one or more Rollins Environmental Services Inc. companies, trained in the facility's SVS requirements, and independent from the generator of the waste.

3. Prior to authorizing the shipment of all other waste streams from off-site sources, the permittee shall obtain, at a minimum, the data required by Conditions 4(c)4 and 5 of Section II of this permit. The required data shall be supplied to the permittee on a Rollins Environmental
Services Uniform Waste Data Sheet (WDS), as identified in the approved waste analysis plan, or similar form. If the generator of the waste is unable to provide the data, the permittee shall obtain a representative sample of the waste and perform the necessary analyses to obtain the required information.

The permittee shall review the information supplied on the WDS or similar form and evaluate the results of any analyses conducted to determine if a waste stream can be managed at the facility. If the permittee determines that the waste stream can be managed at the facility, the permittee shall assign a waste stream number and may arrange to receive shipments of the waste stream.

4. Data required for pre-acceptance of waste streams to be accepted, stored and/or processed prior to incineration at the facility shall include, but not be limited to, the following: heating value, halogen content, sulfur content, metals content (antimony, arsenic, barium, beryllium, cadmium, chromium, lead, mercury, nickel, silver, and thallium), viscosity (liquids only), ash content, PCB content, flash point (liquids only), pH (aqueous liquids only), waste composition, boiling point (liquids only), physical state, reactive sulfides/cyanides, explosiveness and radioactivity.

5. Data required for pre-acceptance of waste streams to be accepted, stored and/or processed prior to transfer to another authorized facility shall include, but not be limited to, the following: PCB content, flash point (liquids only), pH (aqueous liquids only), waste composition, boiling point (liquids only), physical state, reactive sulfides/cyanides, explosiveness and radioactivity.

(d) Receipt Requirements

1. Upon arrival of each waste shipment at the facility, the permittee shall inspect the shipment, review the shipping paperwork, and sample and analyze the waste, if required, in accordance with the requirements below to ensure that the waste shipped matches the quantity and identity of the waste designated on the accompanying manifest or shipping paper and to verify the information which must be known to accept, store, and/or treat the waste at the facility. If a manifest discrepancy is discovered, the permittee shall comply with N.J.A.C. 7:26-7.6(a)4.

2. With exceptions noted below, upon arrival of a waste stream that is to be incinerated at the facility, the permittee shall collect a representative sample of the waste stream and shall analyze the sample for the following parameters: heating value, ash content, halogen content, metals content (antimony, arsenic, barium, beryllium, cadmium, chromium, lead, mercury, nickel, silver and thallium), and sulfur content (only if the waste stream is to be incinerated without bulking/blending with another waste stream).
The following are exceptions to the above receipt sampling and analysis requirements:

a. Receipt sampling and analysis of pharmaceutical waste and consumer product returns shall not be required if the generator certified WDS or equivalent document on file at the facility provides all the data required by Condition 4(c)4 of Section II of this permit. If all the data is not provided, the permittee shall either reject the waste, determine if the waste can be accepted for storage and/or processing prior to being transferred to another authorized facility, or perform the receipt sampling and analysis required above for the missing data.

b. Receipt sampling and analysis of compressed and liquefied gases, as defined by USDOT, and waste contained in cylinders shall not be required if the generator certified WDS or equivalent document on file at the facility provides all the data required by Condition 4(c)4 of Section II of this permit. If all the data is not provided, the permittee shall either reject the waste, determine if the waste can be accepted for storage and/or processing prior to being transferred to another authorized facility, or perform the receipt sampling and analysis required above for the missing data.

c. Receipt sampling and analysis of medical/infectious waste shall not be required if the generator certified WDS or equivalent document on file at the facility provides all the data required by Condition 4(c)4 of Section II of this permit. If all the data is not provided, the permittee shall either reject the waste, determine if the waste can be accepted for storage and/or processing prior to being transferred to another authorized facility, or perform the receipt sampling and analysis required above for the missing data.

d. Receipt sampling and analysis of lab pack waste shall not be required unless the waste is unknown. An unknown lab pack waste shall be analyzed for organic/inorganic classification, physical state, pH (aqueous liquids only), and flash point (liquids only).

Upon receipt of lab pack waste the permittee shall review the packing lists and complete a Lab Pack Drum Receipt Verification Form as described in the approved waste analysis plan. For lab packs packaged by a Rollins service company, at least one (1) in every ten (10) drums shall be opened and the contents checked against the packing slip. For lab packs not packaged by a Rollins service company, all lab pack drums shall be opened and the contents checked against the packing slip.
e. Receipt sampling and analysis of a waste by the permittee shall not be required provided the waste has already been sampled and analyzed in accordance with the following requirements:

1) The sample analyzed was a representative sample of the waste being received;

2) The sample was analyzed for all the parameters listed in Condition 4(d)2 of Section II of this permit;

3) All analyses were performed by a laboratory in compliance with N.J.A.C. 7:18-1 et seq., Regulations Governing the Certification of Laboratories and Environmental Measurements; and

4) The permittee obtains the results of the analyses prior to or upon receipt of the waste.

3. The permittee shall review the information on the WDS or equivalent document on file at the facility and the results of the receipt analyses to determine if a waste shipment is acceptable for incineration at the facility and, if so, how the waste will be managed prior to incineration.

If the results of the receipt analysis of a waste shipment vary significantly from the information provided on the WDS or equivalent document on file at the facility, the permittee shall contact the generator to reconcile the discrepancy. If it is determined that the process generating the waste stream has changed, the permittee shall require that the generator complete a new WDS to resolve the discrepancy. Documentation of instances of receipt analysis varying significantly from WDS information and subsequent generator contacts shall be maintained at the facility as part of the operating record.

4. After inspection of a waste shipment and review of the shipping paperwork, waste characterization information and analytical results, if it is determined that the permittee can accept the waste, the permittee's laboratory shall issue a discharge ticket for the waste that specifies the disposition of the material.

(e) Compatibility Determinations

1. Prior to issuance of a discharge ticket for waste that is to be blended, bulked or otherwise combined with another waste stream, the permittee shall make a compatibility determination. Compatibility determinations do not have to be made prior to bulking waste of the same waste stream from the same generator.

2. Compatibility determinations shall be made based upon
prior experience with the same waste streams, review of the waste characterizations along with references that provide compatibility information, or by combining samples of the wastes in the laboratory and observing the mixture for evidence of incompatibility.

3. The discharge ticket shall indicate materials that are incompatible with the waste stream.

(f) Post-Treatment Analysis

1. Prior to incineration of waste streams that have been bulked, blended or otherwise combined, the permittee shall collect a representative sample of the combined wastes and analyze the sample to determine if the combined wastes are acceptable for incineration. The samples shall be analyzed for the following parameters: heating value, metals content (antimony, arsenic, barium, beryllium, cadmium, chromium, lead, mercury, nickel, silver and thallium), pH (aqueous wastes only), sulfur content, halogen content, ash content and viscosity. As an alternative to collecting a representative sample of combined wastes, the laboratory may combine samples of wastes intended for blending or bulking and have the resulting sample analyzed as required above provided the resulting sample is representative of the bulked or blended wastes.

2. Prior to the transfer of waste streams that have been bulked, blended or otherwise combined, the permittee shall collect a sample of the combined waste and have the sample analyzed for the parameters required by the authorized destination facility.

(g) Changes in Waste Management Methods

The permittee may elect to change the method of management for a waste (for example, a waste originally accepted for incineration may be alternatively transferred to another authorized facility or a waste originally accepted for transfer may be incinerated on-site) after receipt provided the permittee obtains approval of the change from the generator of the waste and meets the requirements specified below:

1. For waste originally accepted for transfer, prior to incineration, the permittee shall:
   a. Permittee shall obtain from the generator, any information not provided on the WDS in accordance with Condition 4(c)4;
   b. Collect a representative sample of the waste and analyze the sample for the receipt parameters listed in Condition 4(d)2 of Section II of this permit; and
   c. Based upon the WDS and the results of the analysis, determine if the waste is acceptable for incineration at the facility.
2. For waste originally accepted for incineration, prior to transfer to another authorized facility, the permittee shall review the waste characterization data available from pre-acceptance and receipt requirements. If additional analytical information is needed by the destination facility, the permittee shall collect a representative sample of the waste and have the sample analyzed for the parameters required by the authorized destination facility.

3. For waste originally not intended to be bulked or blended, prior to bulking or blending, the permittee shall make a compatibility determination as required by Condition 4(e) above.

(h) Recharacterization

1. Every two (2) years the permittee shall obtain a new WDS or a re-certification form, as identified in the approved waste analysis plan, from each generator for each waste stream accepted at the facility.

2. The permittee shall recharacterize a waste stream by performing the pre-acceptance requirements of Condition 4(c) of Section II of this permit when:
   
a. The process generating a waste stream changes; or
   
b. An analysis of an incoming shipment of a waste stream varies significantly from the initial analysis.

(i) Incinerator Residues, Other Residues of Commercially Accepted Waste and Waste Generated On-Site

1. For incinerator residues, other residues of commercially accepted wastes and wastes generated on-site that are to be shipped off-site for landfilling, the permittee shall obtain a representative sample of the waste and analyze the sample in accordance with the requirements for Category 4 wastes described in the approved waste analysis plan.

2. For residues of commercially accepted wastes and wastes generated on-site that are to be incinerated on-site, the permittee shall comply with the administrative and analytical waste analysis requirements for off-site wastes accepted for incineration, except a WDS shall not be required.

(j) Unknowns

For wastes that become unknown (i.e. container markings/labels detach or are illegible) while in storage at the facility, the permittee shall comply with SOP-7.7 contained in the approved waste analysis plan.

(k) Sampling methods shall be in accordance with the procedures as outlined in the approved waste analysis plan, and shall employ equipment as prescribed in the latest edition of EPA Manual SW 846.
(1) Analytical Methods

All waste analysis performed by the permittee to comply with the requirements of Condition 4 of Section II of this permit shall be performed in accordance with the latest edition of the following methods:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heating value</td>
<td>ASTM D-240</td>
</tr>
<tr>
<td>Ash</td>
<td>Standard Methods 18th ed., Part 408D</td>
</tr>
<tr>
<td>Halogens</td>
<td>SW846 Methods 5050 and 9056</td>
</tr>
<tr>
<td>Sulfur</td>
<td>ASTM D3177 and D3449</td>
</tr>
<tr>
<td>Metals</td>
<td>SW846 Methods 6010, 7470 and 7471</td>
</tr>
<tr>
<td>PCBs</td>
<td>SW846 Method 8080</td>
</tr>
<tr>
<td>Flash point</td>
<td>SW846 Method 1010 or 1020</td>
</tr>
<tr>
<td>pH</td>
<td>SW846 Method 9041</td>
</tr>
<tr>
<td>Reactive cyanides/sulfides</td>
<td>SW846 Methods 9010 and 9030</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Manufacturer's Manual</td>
</tr>
<tr>
<td>Boiling point</td>
<td>ASTM D1120-89</td>
</tr>
<tr>
<td>Compatibility</td>
<td>ASTM E476-73 Modified</td>
</tr>
</tbody>
</table>

The permittee shall maintain in the written Operating Record required by Condition 16 of Section I of this permit, as per N.J.A.C. 7:26-9.4(i)3, records and results of all waste analyses performed. Such records and results shall be entered into the written Operating Record as they become available and shall be maintained until closure of the facility. The permittee shall maintain the following waste analysis information in the written Operating Record:

1. The individual who performed the sampling or measurements;

2. The date(s) the analyses were performed;

3. The individual(s) who performed the analyses;

4. The results of the analyses for the parameters required above; prior approval of the Department.
complete response within sixty (60) days of the date of notification. The revised plan will be subject to approval by the Department.

5. **Inspections Requirements**

The permittee shall comply with the inspections, as outlined in Condition 1 of Section II of the permit, for equipment malfunction, structural deterioration, operator errors, spills or leakage and discharges that could cause or lead to the release of hazardous waste constituents and adversely affect the environment or threaten human health. Rollins Environmental Services (NJ) Inc. shall conduct the inspections for the equipment listed below.

(a) **Container Storage Areas**

<table>
<thead>
<tr>
<th>Activity/Equipment</th>
<th>Inspected for</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Container placement</td>
<td>placed on pallets or otherwise elevated by wheels, skids, legs, etc.</td>
<td>Daily</td>
</tr>
<tr>
<td>Container placement</td>
<td>minimum twenty-four (24) inch aisle space, neat, tidy</td>
<td>Daily</td>
</tr>
<tr>
<td>Container stacking</td>
<td>maximum of two (55) gallon drums</td>
<td>Daily</td>
</tr>
<tr>
<td>Container sealing</td>
<td>all bungs and covers</td>
<td>Daily</td>
</tr>
<tr>
<td>Container labeling</td>
<td>labels complete</td>
<td>Daily</td>
</tr>
<tr>
<td>Container condition</td>
<td>corrosion, leaks</td>
<td>Daily</td>
</tr>
<tr>
<td>Container location by type</td>
<td>type</td>
<td>Daily</td>
</tr>
<tr>
<td>Ash Dumpster Area</td>
<td>standing water, cracks</td>
<td>Daily</td>
</tr>
<tr>
<td>Housekeeping</td>
<td>clean, tidy</td>
<td>Daily</td>
</tr>
<tr>
<td>Warning signs</td>
<td>legible &amp; visible</td>
<td>Weekly</td>
</tr>
<tr>
<td>Emergency equipment</td>
<td>unobstructed</td>
<td>Daily</td>
</tr>
<tr>
<td>Incinerator and associated equipment</td>
<td>Leaks, spills and fugitive emissions</td>
<td>Daily</td>
</tr>
<tr>
<td>Fire exits</td>
<td>unobstructed</td>
<td>Daily</td>
</tr>
</tbody>
</table>
(Added 04/08/92)

<table>
<thead>
<tr>
<th>Vehicle Management</th>
<th>no visible corrosion or leaks which may cause a container failure</th>
<th>Daily</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical equipment</td>
<td>unobstructed</td>
<td>Daily</td>
</tr>
</tbody>
</table>

(Modified 4/08/92)

| Containment areas and sumps | accumulation of spilled or leaked waste, standing water, cracks and gaps | Daily |

(b) Tank Storage Area

<table>
<thead>
<tr>
<th>Activity/Equipment</th>
<th>Inspected for</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wall thickness</td>
<td>detect thinning</td>
<td>Annually</td>
</tr>
<tr>
<td>Tank condition</td>
<td>leaks, bulges</td>
<td>Daily</td>
</tr>
<tr>
<td>Housekeeping</td>
<td>clean, tidy</td>
<td>Daily</td>
</tr>
<tr>
<td>Conservation vents</td>
<td>plugging</td>
<td>Weekly</td>
</tr>
<tr>
<td>Dike</td>
<td>cracks</td>
<td>Daily</td>
</tr>
<tr>
<td>Base</td>
<td>standing water, cracks</td>
<td>Daily</td>
</tr>
<tr>
<td>Pipes</td>
<td>no leaks, supported</td>
<td>Daily</td>
</tr>
<tr>
<td>Valves</td>
<td>leaks</td>
<td>Daily</td>
</tr>
<tr>
<td>Transfer pumps</td>
<td>seal leaks, functional</td>
<td>Daily</td>
</tr>
<tr>
<td>High level alarms/automatic cut-offs</td>
<td>functional</td>
<td>Weekly</td>
</tr>
<tr>
<td>Ladder and platforms</td>
<td>structural</td>
<td>Weekly</td>
</tr>
<tr>
<td></td>
<td>defects</td>
<td></td>
</tr>
<tr>
<td>Tank number label</td>
<td>visible</td>
<td>Annual</td>
</tr>
</tbody>
</table>

(c) Incinerator Operating Areas

<table>
<thead>
<tr>
<th>Activity/Equipment</th>
<th>Inspected for</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process pipes, valves and pumps</td>
<td>leaks</td>
<td>Daily</td>
</tr>
<tr>
<td>Roll off Container Storage Area</td>
<td>standing water,</td>
<td>Daily</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Activity/Equipment</td>
<td>Inspection For</td>
<td>Frequency</td>
</tr>
<tr>
<td>-------------------</td>
<td>----------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Direct burn areas</td>
<td>clean, tidy, standing water</td>
<td>Daily</td>
</tr>
<tr>
<td>Trailer sampling &amp; washing area</td>
<td>clean, tidy, standing water</td>
<td>Daily</td>
</tr>
<tr>
<td>Automatic waste feed cutoffs</td>
<td>functional</td>
<td>Daily</td>
</tr>
<tr>
<td>Air pollution control system</td>
<td>functional</td>
<td>Bi-weekly</td>
</tr>
<tr>
<td>Scrubber Sludge dewatering system</td>
<td>functional</td>
<td>Bi-weekly</td>
</tr>
<tr>
<td>Fence</td>
<td>no gaps, not corroded</td>
<td>Weekly</td>
</tr>
<tr>
<td>Main gate</td>
<td>functional</td>
<td>Weekly</td>
</tr>
<tr>
<td>Side gate</td>
<td>functional, locked</td>
<td>Weekly</td>
</tr>
</tbody>
</table>

A written log of all inspections, including copies of the completed inspection checklists as provided in the referenced engineering plans and reports of Specific Condition 1, is to be kept on-site. At a minimum, this log must include the date and time of each inspection, the name of the inspectors, a notation of the observations made, and the date and nature of any repairs or other remedial actions performed.

Deleted Condition 5(e) 12/06/93

Added Condition 5(f) 12/06/93

(f) Shredder and Feed System

<table>
<thead>
<tr>
<th>Activity/Equipment</th>
<th>Inspection For</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shredder</td>
<td>corrosion, leaks, holes</td>
<td>Daily</td>
</tr>
<tr>
<td>Shredder Feed System</td>
<td>corrosion, leaks, holes</td>
<td>Daily</td>
</tr>
<tr>
<td>Fire Suppression System</td>
<td>O₂ Sensor operating properly</td>
<td>Daily</td>
</tr>
<tr>
<td>Shredder Explosion Suppression System</td>
<td>explosion panels free from damage, temperature and pressure sensor operating properly</td>
<td>Daily</td>
</tr>
</tbody>
</table>
EMERGENCY EQUIPMENT readily available Daily

**Added Condition 5(g) 12/06/93**

(g) Viscosity Reduction Station

<table>
<thead>
<tr>
<th>Activity/Equipment</th>
<th>Inspection For</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity Reduction Unit</td>
<td>corrosion, leaks, holes</td>
<td>Daily when in use</td>
</tr>
<tr>
<td></td>
<td>spilled waste</td>
<td>Daily when in use</td>
</tr>
<tr>
<td>Steam Feed Line</td>
<td>corrosion leaks, holes</td>
<td>Daily when in use</td>
</tr>
<tr>
<td></td>
<td>control valve operation</td>
<td>Daily when in use</td>
</tr>
</tbody>
</table>

6. **Construction/Installation Requirements**

(a) The permittee is authorized to construct the additional units listed below, in accordance with the engineering designs included in the referenced permit application documents cited in Condition 1(a) of Section II of this permit. Constructions shall be completed in conformance with the schedule listed below, except as may be delayed by circumstances beyond the permittee's control, such as inclement weather, labor strike, or contractor delays. Prior to initiation of any construction, the permittee shall apply for and obtain all applicable local authority approvals and building permits.

(Modified 12/06/93) Anticipated Completed Date

<table>
<thead>
<tr>
<th>Item</th>
<th>Completed Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phase III Tank Farm</td>
<td>12/90</td>
</tr>
<tr>
<td>Direct Burn/Truck Unloading Areas</td>
<td>12/90</td>
</tr>
<tr>
<td>Heat Recovery/Power Generation System</td>
<td>12/90</td>
</tr>
<tr>
<td>Trailer Washing</td>
<td>12/90</td>
</tr>
<tr>
<td>Flood Control Dike</td>
<td>12/90</td>
</tr>
<tr>
<td>Liquid Burner Modifications</td>
<td>12/90</td>
</tr>
<tr>
<td>Hot Duct Modification</td>
<td>12/90</td>
</tr>
<tr>
<td>Slag Tap</td>
<td>12/90</td>
</tr>
<tr>
<td>Sludge Dryer</td>
<td>12/90</td>
</tr>
<tr>
<td>Container Storage Building</td>
<td>12/90</td>
</tr>
<tr>
<td>Storm water Management System</td>
<td>12/92</td>
</tr>
<tr>
<td>Container Storage Area E_1</td>
<td>12/93</td>
</tr>
<tr>
<td>Containment Upgrade T-323 Loading Pad</td>
<td>12/93</td>
</tr>
<tr>
<td>Extruder Building</td>
<td>12/94</td>
</tr>
<tr>
<td>Container Storage Area G</td>
<td>12/94</td>
</tr>
<tr>
<td>Shredder and Feed System Replacement</td>
<td>02/00</td>
</tr>
<tr>
<td>Auxillary Elevator Feed System</td>
<td>12/94</td>
</tr>
<tr>
<td>Drum Pad #1 Upgrade</td>
<td>12/94</td>
</tr>
<tr>
<td>Viscosity Reduction Station</td>
<td>12/94</td>
</tr>
</tbody>
</table>

(b) The permittee is granted conceptual approval of the
planned Rotary Reactor and Rotary Reactor Feed Building as described in the referenced permit application documents cited in Condition 1(a) of Section II of this permit. However, prior to initiation of construction, the permittee shall submit final designs to the Department for review and approval, and shall also apply for and obtain all applicable local authority approvals and building permits.

(c) The permittee shall submit to the Department reports of progress toward completion of work at three (3) months intervals, until construction is completed. The first report shall be due three (3) months after the effective date of this permit.

(d) The permittee shall submit complete drawings, specifications and calculations for the construction of the slag tap, signed and sealed by a registered professional engineer prior to initiating construction. In addition, the permittee shall apply for and obtain all applicable local authority approvals and building permits.

(e) Within thirty (30) days after the completion of construction of each item the permittee shall submit to the Department by Certified Mail or hand delivery a letter signed by the permittee and a registered professional engineer stating that the construction is complete and in accordance with the drawings, specifications and calculations approved by the Department.

(f) The Department will inspect the facility to determine whether or not it is in compliance with the layout and specifications of the design plans set forth in the engineering plans and reports. If within fifteen (15) days of the date of submission of the letter in Specific Condition 6(c) of Section II of this section, the permittee has not received from the Department notice of intent to inspect, prior inspection is waived and it is understood that the facility meets the design requirements. If the facility is not in compliance with the approved design, a schedule shall be submitted within thirty (30) days of the date of the Department's inspection outlining how the facility will be brought into compliance. The schedule shall be submitted to the Department for approval.

7. Closure Plan

The permittee shall close the facility in the manner stated in the application submitted by G. E. Jordan, Vice President, RES (NJ) dated December 19, 1985, revised February 8, 1988. The closure of the facility is subject to the approved closure plan, N.J.A.C. 7:26-9.8 and the following conditions:

(a) The final closure of the facility shall be in accordance with the following procedures:

1. A list of all incinerable wastes that are in storage shall be prepared.
2. Blend sheets for the incinerable waste in storage and a final burn schedule shall be prepared.

3. An inventory list of all tanks, tank trailers, pumps, piping incinerator components, instrumentation, hardware and other associated equipment shall be prepared.

4. All incinerable wastes shall be removed from storage, processed and incinerated on-site according to standard plant operating procedures and the final burn schedule.

5. All tanks, tank trailers and other associated pumps and piping shall be emptied and decontaminated as follows:

   (a) Liquid contents of tanks and tank trailers shall be pumped out and incinerated;

   (b) Unpumpable solid and/or sludge contents of the tanks and tank trailers shall be removed by vacuum or manually and incinerated;

   (c) The interior surfaces of the tanks and tank trailers shall be flushed with solvent (e.g., No. 2 fuel oil or equivalent) using a high pressure automatic rotating and indexing type double spray nozzle. The volume of solvent used in flushing shall be 10% of the capacity of the tank or tank trailer;

   (d) The flush solvent for each tank shall be charged and removed through all associated filling and emptying pipes, manifolds, hoses and pumps;

   (e) The used flush solvent shall be collected and incinerated on-site;

   (f) Residual solvent from tanks, pipes, manifolds, hoses and pumps shall be purged with nitrogen gas;

   (g) The interior surface of the tank or tank trial shall be flushed with detergent solution using a high pressure automatic rotating and indexing type double spray nozzle. The volume of detergent solution used shall be 10% of the capacity of the tank or tank trailer;

   (h) The detergent solution for each tank shall be charged and removed through all associated filling and emptying pipes, manifolds, hoses, and pumps; and

   (i) The used detergent solution shall be collected and incinerated on-site.

6. All tank storage, waste unloading, staging, trailer
parking, and container storage containment areas, including associated collection sumps shall be decontaminated as follows:

(a) The entire containment area shall be manually scrubbed with detergent solution and rinsed with water;

(b) The area shall be inspected for visible contamination (e.g., stains). The procedure of (a) above shall be repeated, if necessary.

(c) The used detergent and rinse water shall be collected and incinerated on-site;

(d) Should areas of contamination persist, the effected areas shall be manually scrubbed with solvent, followed by detergent scrub and water rinse;

(e) The used solvent and detergent solution and rinse water shall be collected and incinerated on-site;

(f) Should the measures taken in (d) above fail to remove the contamination, the affected areas shall be sandblasted;

(g) The used sand shall be collected and disposed of in a permitted off-site landfill;

(h) Should the measures taken in (f) above fail to remove the contamination, the affected areas shall be demolished and the resulting debris shall be disposed of in an off-site permitted landfill.

7. Unloading racks and all containment area grating shall be decontaminated using detergent solution/water rinse, and/or solvent flush and/or sandblasted and/or cut up and incinerated on-site, if necessary, to remove all visible contamination.

8. Carbon adsorbent from the tank vent adsorption systems shall be incinerated on-site. All associated piping and containers shall be solvent flushed, nitrogen purged, detergent flushed and water rinsed as was performed for piping above.

9. Portable ash hoppers shall be manually scrubbed using detergent solution/water rinse and/or sandblasted, if necessary, to remove all visible contamination.

10. Decontamination of the incineration system shall proceed as follows:

(a) The Rotary Reactor shall be shut down and isolated from the rest of the incineration system;
(b) After the Rotary Reactor has cooled, the heat transfer media (sand), all refractory and ash shall be removed and disposed of in an off-site permitted landfill;

(c) After the last of the solvent, detergent solution and rinse waters have been incinerated, the remainder of the incineration system shall be shut down;

(d) After the Incineration System has cooled, all slag, ash, sand and refractory from the Rotary Kiln, all burners, the Afterburner, hot duct and saturator shall be removed and disposed of at an off-site permitted landfill; and

(e) All incinerator containment areas shall be decontaminated in the same manner as containment areas in six (6) above.

11. Decontamination of exhaust gas cleaning equipment shall proceed as follows:

(a) Exhaust gas cleaning equipment shall be operated using fresh creek water and fresh air;

(b) Should contamination persist, the exhaust gas cleaning equipment shall be operated using a solution of fresh creek water, detergent and/or hydrochloric acid;

(c) Contamination from non-wetted surfaces (ducts, induced draft fans and the stack) shall be removed by sandblasting. The used sand shall be disposed of in an off-site permitted landfill;

(d) All exhaust gas cleaning equipment containment areas shall be decontaminated in the same manner as containment areas in six (6) above.

12. Decontamination of scrubber water neutralization equipment shall proceed as follows:

(a) Neutralized waste water shall be pumped to the scrubber water clarifiers;

(b) Vacuum or manually removalumpumpable solids and/or sludges shall be removed by vacuum or manually and transferred to the scrubber water clarifier;

(c) The entire system, including pumps and pipes, shall be flushed three (3) times with fresh water. The volume of water used in each flush shall be ten percent (10%) of the entire system volume; and

(d) All flush water shall be collected and
transferred to the scrubber water clarifier.

13. Decontamination of the scrubber water clarification equipment shall proceed as follows:
   (a) Clarified water shall be pumped to the heavy metals removal system;
   (b) Sludge shall be transferred to scrubber sludge dewatering system;
   (c) Residual sludge shall be removed by and transferred to the scrubber sludge dewatering system;
   (d) The entire system including all pumps and pipes, shall be flushed three (3) times with fresh water. The volume of water used in each flush shall be ten percent (10%) of the entire system volume; and
   (e) All flush water shall be collected and transferred to the heavy metals removal system.

14. Decontamination of scrubber sludge dewatering equipment shall proceed as follows:
   (a) The system shall be operated and all generated sludge disposed of in an off-site permitted landfill;
   (b) The system shall be operated using fresh creek water;
   (c) All the used water shall be collected and transferred to the heavy metals removal system; and
   (d) All scrubber sludge dewatering equipment containment areas shall be decontaminated in the same manner as containment areas in six (6) above are decontaminated, except for transfer of detergent solutions/rinse waters to the heavy metals removal system.

15. Scrubber water cooling equipment, including pumps and piping, shall be decontaminated by operating the system using fresh creek water. The used water shall be transferred to the heavy metals removal system.

16. Heavy metals removed equipment, including pump and piping, shall be decontaminated by operating the system using fresh creek water. The used water shall be transferred to the effluent tankage.

17. The effluent process tanks and other associated pumps and piping shall be emptied and decontaminated as
follows:

(a) The liquid contents of the tanks shall be discharged to Racoon Creek under the limitations of the NJPDES permit;

(b) Any settled solids shall be removed by vacuum or manually and disposed of at an off-site permitted landfill; and

(c) The effluent process tanks and associated pumps and piping shall be manually scrubbed with detergent and rinsed with water and/or solvent and/or be sandblasted to remove visible contamination.

(b) For each item of equipment listed in Condition 7(a) of Section II of this permit that is cleaned to the state of no visible contamination, final documentation of decontamination shall be performed by analysis of a representative sample, collected by either a wipe test or from the final rinse solution, to confirm that no hazardous waste or hazardous waste constituents are present.

(c) The final closure procedures shall be implemented in accordance the following estimated time frames:

<table>
<thead>
<tr>
<th>Closure Activity</th>
<th>Activity Duration in Consecutive Days</th>
<th>Day From Start of Closure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commence final closure operations.</td>
<td>-</td>
<td>0</td>
</tr>
<tr>
<td>Incineration of all wastes in storage, decontamination of waste storage, handling and transport equipment and incineration of spent solvent, washwater and residues generated during decontamination (See Conditions 7(a)4-8 of Section II).</td>
<td>41</td>
<td>41</td>
</tr>
<tr>
<td>Decontamination of incineration system, and ash handling equipment (See Conditions 7(a)9-10 of Section II).</td>
<td>17</td>
<td>58</td>
</tr>
<tr>
<td>Decontamination of exhaust gas cleaning system and scrubber water neutralization system (See Conditions 7(a)11-12 of Section II).</td>
<td>3</td>
<td>61</td>
</tr>
</tbody>
</table>
Decontamination of scrubber water clarification system, scrubber sludge dewatering system, scrubber water cooling system, heavy metals removal system and the process effluent tanks (See Conditions 7(a)13-17 of Section II).

Completion of closure 69 days

(d) The permittee shall notify the Department in writing at least one hundred eighty (180) days prior to the date the permittee expects to begin closure, except in cases where the facility's permit is terminated or if the facility is otherwise ordered by judicial decree or compliance order to cease receiving the wastes or to close. The date when the owner or operator "expects to begin closure" shall be within thirty (30) days after the date on which the owner or operator expects to receive the final volume of wastes.

(e) The permittee after notifying the Department in writing of its intention to close shall perform soil sampling and analysis as part of the final closure of the facility. Such final soil samples shall be collected within one hundred twenty (120) days of the commencement of final closure operations. All field methods and analytical tests shall be in accordance with applicable NJDEP or USEPA procedures of SW-846, latest edition.

(f) The permittee shall notify the Department at least two (2) weeks in advance of each soil sampling date so that a representative of the Department may be present to audit the soil sampling procedure.

(g) Two (2) copies of a written report of the finding of the analyses of these soil samples shall be submitted to the Department within sixty (60) days of the date samples were taken. Data results must be reported according to the latest version of USEPA CLP format deliverables requirements if SOW for Organics and Inorganics Analysis is utilized. If 3rd edition SW-846 methodologies are used, then at a minimum, results must meet the deliverables format requirements as specified in the 3rd edition SW-846. If, after review of the results, the Department determines that contamination exists in the soil, the permittee shall submit a cleanup plan within sixty (60) days of notification of the Department's determination. The cleanup plan shall include the following information:

1) A detailed description of the most practicable method of cleanup of the facility;

2) A time schedule for implementation of the cleanup plan;
3) A description of the procedures that will be used to prevent future soil contamination, if applicable;

4) A compliance schedule for implementation of a ground water monitoring system in accordance with N.J.A.C. 7:14A-6 to determine if contamination has entered the ground water.

Upon acceptance and approval of the cleanup plan by the Department, the permittee shall implement the cleanup program within thirty (30) days after being notified.

(Modified 04/08/92)

(h) The permittee shall submit to the Department, within two hundred forty (240) days from the commencement of final closure operations, written certification by the facility operator and an independent professional engineer registered in the State of New Jersey. This certification shall document that all closure activities have been carried out in accordance with the approved closure plans and the conditions of this permit, and shall be accompanied by two (2) copies of written reports of the findings of the analyses of the equipment decontamination testing specified in Condition 7(b) of Section II and the final soil sampling specified in Condition 7(e) of Section II.

(i) Following receipt of the certificates of closure and reports of analyses specified in Condition 7(h) of this Section, the Department shall conduct a final inspection of the site to verify that the closure activities have been completed. The Department shall also review the reports of analyses to confirm that the equipment and site have been documented to be clean. If, after review of the results of the analyses, the Department determines that contamination still exists, then the permittee shall submit a cleanup plan with sixty (60) days of notification of the Department's determination. The plan shall include a detailed description of the most practicable method of cleanup and a time schedule for its implementation. Upon acceptance and approval of the cleanup plan by the Department, the permittee shall implement the cleanup program within thirty (30) days after being notified.

8. Soil Sampling and Analysis Requirements

Within ninety (90) days from the date of issuance of this permit, the permittee shall submit a detailed Soil Sampling and Analysis Plan for the annual monitoring of exposed soils in the areas of the hazardous waste storage and treatment units identified by this permit. The plan shall be prepared in accordance with the Sampling and Analysis Guidelines for Submission of RCRA Sampling and Analytical Plans. The permittee shall implement the plan on an annual basis one year after completion of the soil sampling and analysis and clean up required as a result of entering into the 3008 (h) Order with the USEPA on August 21, 1987 and after receiving written notification from the Department that the plan has been
approved. If, after a review it is determined that the Soil Sampling and Analysis Plan is deficient or incomplete, the permittee shall be required to amend or revise the same and submit it for re-evaluation to the Department. If the Department requests, the permittee shall submit a revised or amended plan within thirty (30) days of the date requested to the address listed in Section I, Condition 12 (j) of the permit. Modifications to the plan may be required during the effective term of this permit if site conditions or activities change.