

SOLID WASTE FACILITY PERMIT (RENEWAL)

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

CAMDEN COUNTY ENERGY RECOVERY ASSOCIATES, LP

FACILITY TYPE: Resource Recovery Facility  
Mass Burn Incinerator

LOT NO. (S): 3 and 15

BLOCK NO.(S): 641 (formerly 860)-

MUNICIPALITY: City of Camden

COUNTY: Camden

FACILITY REGISTRATION NUMBER: 0408000207

EXPIRATION DATE: June 27, 2001

This Permit is subject to compliance with all conditions specified herein and all regulations promulgated by the Department of Environmental Protection, as same may be amended in the future. Any references herein to specific regulations include any future amendments thereto.

This Permit shall -not prejudice any claim the State may have to Riparian land, nor does it allow the Permittee to fill or alter, or allow to be filled or altered, in any way, lands that are deemed to be Riparian, wetlands, Stream Encroachment areas or Flood Plains, or that are within the Coastal Area Facility Review Act (CAFRA) Zone or subject to the Pinelands Protection Act of 1979, nor shall it allow the discharge of pollutants to waters of this State without proper acquisition of the necessary grants, permits or approvals from the Department of Environmental Protection.

Compliance with the terms of this Permit does not relieve the Permittee of the obligation to comply with all applicable State and Federal statutes, rules and other permits.

Failure to comply with all of the conditions specified herein may result in revocation of the Permit and/or other regulatory or legal actions which the Department is authorized to institute by law.

This permit is non-transferable without approval from the Department pursuant to N.J.A.C. 7:26-2.7(e).

June 27, 1996  
Date of Signature

Signed by Robert C. Ciolek, Assistant Director  
Robert C. Ciolek  
Assistant Director  
Officer of Permitting

June 27, 2001  
Expiration Date

CONDITIONS FOR THE  
SOLID WASTE FACILITY PERMIT (RENEWAL) FOR THE CAMDEN COUNTY  
RESOURCE RECOVERY FACILITY, CITY OF CAMDEN  
CAMDEN COUNTY, NEW JERSEY

PERMITTEE: CAMDEN COUNTY-ENERGY RECOVERY ASSOCIATES, L.P.

FACILITY REGISTRATION NUMBER 0408000207

This Solid Waste Facility Permit (Renewal) is conditioned upon compliance with all applicable statutes, rules, regulations and ordinances, and also upon implementation of the following:

1. Permitted Waste Types

The following solid waste materials, as identified by waste ID numbers and defined in N.J.A.C. 7:26-2.13(g), may be accepted for disposal at this facility:

<u>I.D.</u>	<u>Description</u>
10	Municipal Waste (household, commercial and institutional)
13/13C	Bulky Waste (except those prohibited subcategories listed below)
23	Vegetative Waste
27	Dry Industrial Waste (except those prohibited subcategories listed below)-

2. Prohibited waste Types

The following solid and liquid waste materials, as identified by waste ID numbers and defined in N.J.A.C. 7:26-2.13(g) and (h), and the following regulated medical waste classes as defined in N.J.A.C. 7:26-3A. 6 (a), are specifically prohibited from disposal at this facility:

<u>I.D.</u>	<u>Description</u>
12	Dry Sewage Sludge
13	Bulky Waste (major motor vehicle parts, noncombustible construction material, and noncombustible demolition debris)
25	Animal and Food Processing-Waste
27	Dry Industrial Waste (specifically the following subcategories only: asbestos and' asbestos containing wastes; dry non-hazardous pesticides; nonhazardous (oil and chemical) spill clean-up waste; dry nonhazardous chemical waste; and hazardous waste as defined in N.J.A.C. 7:261.4, N.J.A.C. 7:26-8 and 40 CFR 261 which is generated by small quantity generators as defined in N.J.A.C. 7:26-S.,3)
72	Bulk Liquid and Semi-Liquid
73	Septic Tank Clean-Out Wastes
74	Liquid Sewage Sludge
Regulated Medical Waste	All classes, as defined in N.J.A.C. 7:26-3A.6(a)

3. Recyclables

a. The Permittee shall develop a recyclables inspection plan in consultation with the Camden County Solid Waste Management Plan implementing agency, and in accordance with the certified District Recycling Plan. The inspection plan shall include appropriate provisions regarding enforcement and notification procedures. The

purpose of these plans is to ensure that bulk recyclables are not delivered and processed at the facility.

The recyclables inspection plan shall be submitted to the Department within 120 days of the issuance date of this Permit. Upon approval, the recyclables inspection plan shall be included as a section of the facility's approved Operations and Maintenance Manual.

- b. Recyclable materials designated in the Camden County District Recycling Plan to be source separated in each municipality pursuant to N.J.S.A. 13:1E-99.13b(2), shall not be accepted for disposal at this facility. Loads of waste delivered to the facility which contain designated recyclable materials in excess of the threshold level of acceptability specified in the Camden County District Recycling Plan, shall be handled pursuant to the provisions of said Plan and the recyclables inspection plan to be included in the facility Operations and Maintenance Manual. The Permittee shall be responsible for implementing notification and enforcement provisions of the Camden County District Recycling Plan to the extent required by said Plan.

The Permittee shall identify any hauler found to be in violation of the Camden County District Recycling Plan and shall provide the necessary information to the designated enforcement agency set forth in the Plan, and to the designated municipal recycling coordinator of the municipality from which the waste originated.

- c. The recyclables inspection plan, included as part of the facility's Final Operations and Maintenance Manual, shall reflect the requirements of the approved Camden County District Recycling Plan. Any changes made to the approved Camden County District Recycling Plan must be reflected, as necessary, in revisions to the operations and Maintenance Manual. These O & M Manual revisions shall be implemented in accordance with the procedures outlined in Condition Number 5 of this Permit.

#### 4. Referenced Documents and Engineering Plans

The construction and operation of this facility shall be in accordance with the provisions of N.J.A.C. 7:26-1 et seq. and the following:

- a. "Service Agreement between Camden County Energy Recovery Corp. and Pollution Control Financing Authority of Camden County", dated December 12, 1985.
- b. "Standard Application Form (CP#1) , Construction and Discharge Permits" with "Solid Waste Supplement to Standard Application . Form CP#1, dated May 8, 1986, prepared. by Camden County Energy Recovery Associates. (Included in item r.)
- c. "Solid Waste Supplement to Standard Application Form CP#1 - Revision 1". dated May 9, 1986, prepared by Camden County Energy Recovery Associates. (Included in item r.)
- d. "Volume 1, Final Environmental and Health Impact Statement" (the EHIS), April, 1986; prepared by James C. Anderson Associates, Poster Wheeler USA Corporation, and Environmental Research & Technology, Inc. (Note: Figure 5.1 is superseded by the drawing in Section IV of item r.)
- e. "Volume I, Final Environmental and Health Impact Statement,

Appendices", April, 1986, prepared by James C. Anderson Associates, Foster Wheeler USA Corporation, and Environmental Research & Technology, Inc.

- f. "Final Environmental & Health Impact Statement, Volume II, Engineering Design Report" (the EDR), April, 1986, prepared by Foster Wheeler USA Corporation.
- g. The following full-size drawing which accompanied the EDR, item f, and was prepared by James C. Anderson Associates under the supervision of Mark P. Neisser (New Jersey Professional Engineer's License No. 29258):

Figure 2.2, Rev. none, dated July, 1985, Vicinity Map

- h. The following full-size drawings which accompanied the EDR, item f, and were prepared by Foster Wheeler USA Corporation, and signed, sealed and dated by Anatolij Kulyk (New Jersey Professional Engineer's License No. 15229):

3536-1-50@301, Rev. non, dated none: Overall Process Flow Schematic

3536-1-50-302, Rev. none, dated March 4, 1986:  
Boiler Feedwater/Stream/Condensate Heat and Material Balance (superseded by -Rev.A in Section IV of item r.)

3536-2-50-303, Rev. none, dated none: Block Flow Diagram, Overall Water Balance (superseded by same in Section IV of item r.)

35877-2-51-1011 Rev. A, dated August 21, 1985: Boiler Island Elevation and Ash Load-Out Building

35877-1-51-102, Rev. A, dated March 4, 1986: Boiler Island Plot Plan

35877-1-51-103, Rev. A, dated February 28, 1986: Overall Site Drawing

35877-2-51-105, Rev. none, dated October 24, 1985: Tipping Floor Layout

35877-1-51-106, Rev., A, dated March 31, 1986: Traffic-and Truck Queuing

- i. "Addendum A to the Solid Waste Permit Application", July, 1986, prepared by Foster Wheeler USA Corporation, consisting of additions and changes to the EMIS and EDR intended to make them "administratively complete" for technical review.
- j. "Addendum B to the Solid Waste Permit Application", July, 1986 prepared by James C. Anderson Associates, consisting of winter-period MSW characterization data and corrections to previously submitted summer period data.
- k. "Addendum C to the Solid Waste Permit Application, Comment/Response Document", October, 1986, prepared by Foster Wheeler USA Corporation.
- l. Update to "Addendum C to the Solid Waste Permit Application,

Comment/Response Document", December, 1986, prepared by Foster Wheeler USA Corporation.

- m. Update to "Addendum C to the Solid Waste Permit Application, Comment/Response Document", January, 1987, prepared by Foster Wheeler USA Corporation. (Note: By this submittal, Addendum C was divided into Volume I and Volume II.)
- n. The following full-size drawing which accompanied the January, 1987 update to Addendum C, item 1, and was prepared by James C. Anderson Associates under the supervision of Mark P. Neisser (New Jersey Professional Engineer's License No. 29258):

Figure 3.1, Rev. none, dated August 5, 1985: Pre-Quaternary Geology and Major Water Supply Wells.

- o. The following full-size drawing which accompanied the January, 1987 update to Addendum C, item 3, and was prepared by Foster Wheeler USA Corporation:

3536-1-41-112, Rev. A, dated January 16, 1987: Maximum Predicted Property Line Noise Levels. (Superseded by Rev. B in Section IV of item r.)

- p. The following full-size drawing which accompanied the "Waterfront Development Permit" application and was Submitted to the Division of Solid Waste Management for information, and which was prepared by James, C. Anderson Associates and sealed, signed and dated by Earle B. Hallowell, Jr. (New Jersey Professional Land Surveyor's License No. 15556) (included in Section IV of item r.):

3536-1-41-111, Rev. A, dated August 15, 1986: Survey of Premises.

- q. The following full-size drawings which accompanied the applications to the "Waterfront Development Permit", "Discharge to Ground Water Permit", "Discharge to Surface Water Permit", "Water Allocation Permit", "Stream Encroachment Permit, the "Section 404 Permit" and the "Soil Erosion and Sediment Control Plan Approval", and which were submitted to the Division of Solid Waste for information, and which were prepared by Foster Wheeler USA Corporation (included in Section IV of item r or in Section III of item S as noted following each title):

3536-1-41-100, Rev. F, dated February 20, 1987: Site Grading & Storm Water Drainage Plan. (In item s.)

3536-1-41-101, Rev. C, dated February 20, 1987: Erosion & Sediment Control Plan. (In item s.)

3536-1-41-102, Rev. D, dated November 26, 1986: Stormwater Drainage, Miscellaneous Sections & Details. (In item r.)

3536-1-41-104, Rev. C, dated December 1, 1986: 100 Year Flood Plain. (In item r.)

3536-1-41-106, Rev. B, dated December 1, 1986: Stormwater Runoff Area at Inlet of Culverts. (In item r.)

3536-1-41-108, Rev. B, dated February 20, 1987: Stormwater Drainage, Plan, Sections & Details. (In item S.)

3536-1-41-109, Rev. A, dated December 8, 1986,: Tidal Wetlands. (In item r.)

3536-1-41-110,. Rev. B, dated January 30, 1987: Non-Tidal Wetlands. (In item r.)

3536-1-41-200, Rev. E, dated November 26, 1986: Monitoring Well Locations. (In item s.)

3536-1-58-101, Rev. C, dated January 16, 1987: Sewer Line. (In item r.)

- r. "Application Documents for Certificate of Approved Registration and Engineering Design Approval", April, 1986, prepared by Foster Wheeler USA Corporation. Contents include the following documents, not otherwise furnished separately:

Application forms, items b and c above.

Correspondence which constitutes a further update of Addendum C, items k, l. and n above.

Drawings as noted in items d, h, o, p, and q above.

Drawings not listed in the above items as follows:

35877-1-47-2, Rev. none, dated September 30, 1985: Landscape Plan.

Unnumbered, Rev. none, dated March 9, 1987: Morgan Boulevard and Interstate Rt. 676, Block 860 (old) 641 (new), Ward B-3, Lots 3 & 15, City of Camden, County of Camden, N.J. (Also written Legal Descriptions which following the drawing.)

The Fact Sheet and Draft Permit for the proposed resource recovery facility.

- s. "Application Documents for the Permit to Construct, Install or Alter Control Apparatus or Equipment; Certificate to Operate Control Apparatus or Equipment; and the Prevention of Significant Deterioration Permit" and "NJPDDES - Discharge to Surface Water/Discharge to Ground Water Permit". Contents include drawings as noted in item q above.

- t. The following list of drawings, as well as associated documents (Volumes I thru 11), were submitted to the Bureau of Resource Recovery under cover letter dated August 21, 1990, and later amended on February 13, 1991 and as elsewhere noted herein. The list is generalized and includes the drawing numbers only, as follows:

Engineering Flow Diagrams:

Drawing 3531-1-50-1  
Drawing series 3531-1-50-101 thru 118  
Drawing series 3531-1-50-201 thru 209

Electrical Power:

Drawing series 3531-1-73-6 thru 13, and 20

Site Preparation:

Drawing series 3531-1-41-401 thru 412, and 416

- u. The following drawings submitted with the "Certification of Construction", dated March 1, 1991, and signed and sealed by Anatolij Kulyk, N.J. Professional Engineer License No. 15229. These drawings are intended to supersede or replace certain drawings recorded under this permit condition (above).

(Note: The following series 3531-1-58-1 through 3531-1-58-26 replace drawing 3536-1-58-101 and are generally entitled, Underground Installations.)

1. 3531-1-58-1, Rev. 4, dated September 21, 1989, entitled "Underground Installations, Ash Stg. Loadout - West";
2. 3531-1-58-2, Rev. 6, dated April 30, 1990, entitled "Precipitator Area";
3. 3531-1-58-3 ' Rev. 6, dated April .30, 1990, entitled '\$'Shop-Office Areas";
4. 3531-1-58-4, 'Rev. 6, dated December 8, 1989, entitled "Ash Storage and Loadout - East";
5. 3531-1-58-5, Rev. 4, dated December 8, 1989, entitled "Boiler Building";
6. 3531-1-58-6, Rev. 6, dated March 20, 1990 entitled "Boiler and T/G Buildings";
7. 3531-1-58-7, Rev. 4, 'dated October 2, 1989, entitled "... Tipping Floor - South";
8. 3531-1-58-8, Rev. 4, dated October 2, 1989, entitled "... Tipping Floor - Central";
9. 3531-1-58-9, Rev. 4, dated October 2, 1989, entitled "...Tipping Floor - North";
10. 3531-1-58-10, Rev. 6, dated January 31, 1990, entitled "...Cooling Tower - South";
11. 3531-1-58-11, Rev. 4, dated October 2, 1989, entitled "...Cooling Tower - North";
12. 3531-1-58-12, Rev 5, dated March 20, 1990, entitled "...Equalization Basin";
13. 3531-1-58-13, Rev. 2, dated June 30, 1989, entitled "...West of Equalization Basin";
14. 3531-1-58-14, Rev. 2, dated June 30, 1989, entitled "...East of Equalization Basin";
15. 3531-1-58-15, Rev 3, dated' August 28, 1989, entitled "...South of Cooling-Tower Basin";
16. 3531-1-58-16, Rev. 5, dated December 8, 1989, entitled "...North of Cooling Tower Basin";
17. 3531-1-58-17, Rev. 5, dated December 8. 1989, entitled

"...North of Admin. and Shop Bldg.";

18. 3531-1-58-18, Rev. 5, dated December 8, 1989, entitled "...North of T/G Building";
19. 3531-1-58-19, Rev. 3, dated August 28, 1989, entitled "North of TCP Bldg.";
20. 3531-1-58-20, Rev. 5, dated December 8, 1989, entitled "...Truck Weight Scale Area";
21. 3531-1-58-21, Rev. 5, dated December 8, 1989, entitled "...Culvert Area";
22. 3531-1-58-22, Rev. 3, dated December 8, 1989, entitled " ... Access North Road (1 of 2)";
23. 3531-1-58-23, Rev. 3, dated December 8, 1989, entitled " ... Access North Road (2 of 2)";
24. 3531-1-58-24, Rev. 4, dated December 8, 1989, entitled "...Utility Tie-In at Property Line";
25. 3531-1-58-25, Rev. 6, dated December 8, 1989, entitled "... Details - Sheet 1 of 2"; and
26. 3531-1-58-26, Rev. 7, dated March 20, 1990, entitled "... Details - Sheet 2 of 2".

(The following drawing replaces drawing 3536-1-50-301:)

27. 3531-1-50-303, Rev. F, dated January 18, 1990, entitled "Overall System Schematic";

(The following drawing replaces drawing 3536-1-50-302:)

28. 3531-50-301, Rev. D, dated January 18, 1990, entitled "Process Flow Diagram, Boiler Feed Water/Steam Condensate, Heat and Material Balance";

(The following drawing replaces drawing 3536-2-50-303:)

29. 3531-50-302, Rev. C, dated August 5, 1988, entitled "Process Flow Diagram - overall Water Balance";

(The following drawing series replaces drawings 35877-51-101, 102, 105; the series is generally entitled "Equipment Arrangement":)

30. 3531-51-2, Rev. 5i- dated December 8, 1989, entitled "Turbine Generator, Admin. Maintenance Bldgs."
31. 3531-1-51-3, Rev. 4, dated September -8, 1989, entitled "Boiler Island west of TPC Building";
32. 3531-1-51-4, Rev. 6, dated April 6, 1990, entitled "Boiler island - Auxiliary Plan - Ground Fl. El 100, - 6" ";
33. 3531--1-51-5, Rev. 4, dated December 8, 1989, entitled "Boiler Island (Plan - TCP Building) North Side";
34. 3531-1-51-6, Rev. 5, dated April 25, 1990, entitled "Boiler



Island (Plan - TCP Building) South Side";

35. 3531-1-51-7, Rev. 4, dated August 8, 1990, entitled "Ash Storage and Load Out";
36. 3531-1-51-8, -Rev. 5, -dated December 8, 1989, entitled "Cooling Tower Area";
37. 3531-1-51-9, Rev. 5, dated November 20, 1989, entitled "Boiler Island - Auxiliary Plans - Oper. FL. EL. 1231 - O" to Below Charging FL (EL. 1591 -411) to;
38. 3531-1-51-11, Rev. 4, dated June 8, 1990, entitled "Wastewater Treatment Area";

(The following drawing replaces drawing 358771@51-103:)

39. 3531-1-51-100, Rev. 2, dated December 8, 1989, entitled "Key Plot Plan";

(The following drawing series replaces drawings 3536-41-100, 101: All are entitled "Site Preparation - Site Plan" 1 of 4, etc.):)

40. 3531-1-41-401, Rev. 3, dated September 21, 1990, (drawing 1 of 4);
41. 3531-1-41-402, Rev. 6, dated November 15, 1990, (drawing 2 of 4);
42. 3531-1-41-403, Rev. 6, dated November 15, 1990, (drawing 3 of 4);
43. 3531-1-41-404, Rev. 1, dated May 23, 1989, (drawing 4 of 4);

(The following drawing replaces drawing 3536-1-41-102:)

44. 3511-1-41-405, Rev. 1, dated May 19, 1989, entitled "Site Preparation - Miscellaneous Sections and Details (1 of 2)"; and

(The following drawing replaces drawing 3536-1-41-108:)

45. 3531-1-41-406, Rev. 2, dated May 19, 1989, entitled "Site Preparation - Miscellaneous Sections and Details (2 of 2).

The following documents represent, modifications to the facility operation and/or design, that have been presented to the Bureau of Resource Recovery for review. The Bureau has approved the concepts included thereon, and subsequently, this condition is amended to include the documents and drawings, as described by the respective modification. Unless otherwise specified, all drawings have been signed and sealed by Bruce C. Studley, P.E., New Jersey License Number 25102. (Some documents later superseded.)

- v. Documents and drawings submitted to Charles E. DeWeese, Chief, Bureau of Resource Recovery, from N.G. Wattis, Plant Manager, CCERA, under cover letter dated March 14, 1990 and later supplemented under cover letters dated March 28, September 24, October 9, October 16, October 18, 1990 and January 21, February 11, March 5 and March 22, 1991. These submissions represent requests to change (and supplements to such requests) facility operations and/or design. These submissions occurred during the later stages of facility construction, prior to facility operation.

1. Drawing SKMH-860619, Revision D, entitled "General Arrangement - Ash Handling System", prepared by Foster Wheeler and dated June 3,, 1988.
2. Drawing No. 3531-1-43-436, Revision 2, entitled "Foundations for Fuel Oil Tank - Foundation Sections and Details", prepared by Foster Wheeler and dated March 7, 1990 (Fuel Tank).
3. Drawing No. 3531-1-51-100, Revision 2, entitled "Key Plot Plan", prepared by Foster Wheeler and dated December 8, 1989 (Fuel Tank and Tipping Hall).
4. Drawing No. 3531-1-51-5, Revision 4, entitled "Equipment Arrangement Boiler Island... North Side", prepared by Poster Wheeler and dated December 8, 1989 (Tipping Hall).
5. Drawing No. 3531-1-51-6, Revision 5, entitled "Equipment Arrangement Boiler Island... South Side", prepared by Foster Wheeler and dated April 25, 1990 (Tipping Hall).
6. Drawing No. 3532-1-51-7, 'Revision 4, entitled "Equipment Arrangement Plan - Ash Storage and Load Out", prepared by Foster Wheeler and dated June 8, 1990.
7. Drawing No. 3531-1-51-225, Revision 2, entitled "Fuel Oil Storage - Plan and Details (Area 2) 11, prepared by Foster Wheeler and dated March 21, 1990 (Stormwater Collection & Fuel Tank).
8. Drawing/Sheet No. A-9, Revision 0, entitled "Elevation" (North & West) , prepared by Modular Structures Inc. (MSI) and dated July 13, 1990 (Exterior Views).
9. Drawing/Sheet No. A-10, Revision 0, entitled "Elevation" (South & East) , prepared by MSI and dated July 13, 1990 (Exterior Views).
10. The following drawings (respectively numbered), prepared by Johnson March Systems, Inc., generally entitled "Cooling Tower - Chemical Feed" and dated (certified correct) November 8, 1989:

<u>DWG.No.</u>	<u>Revision</u>	<u>Title</u>
D758839-01	D	"Phosphate Feed - Mechanical"
D758839-02	D	"Mechanical Layout"
D758839-03	D	"Oxygen Scavenger"
D758839-04	D	"Neutralizing Amine"
D758839-05	-	"Fiberglass Bldg. Layout"
D758839-11	B	"Phosphate Feed - Electrical"
D758839-12	C	"Electrical - Cooling Tower"
D758839-13	C	"Electrical-Oxygen Scavenger"
D758839-14	C	"Electrical-Neutralizing Amine"

11. Drawing No. 3531-2-36-01, Revision 1, entitled "General Arrangement - Ash Handling System", prepared by Foster Wheeler and dated January 7, 1991 (Magnetic Separator).
12. Drawing No. 3531-1-41-406, Revision 2, entitled "Site Preparation - Sections and Details", prepared by Foster

Wheeler and dated May 19, 1989. This drawing was formerly numbered 3536-1-41-408 and dated February 20, 1981 (Concrete Outfall Boxes).

w. Documents and drawings submitted to Charles E. DeWeese, Chief, Bureau of Resource Recovery, from B.C. Studley, Vice President, Plant Operations, under cover letter dated June 14, 1991, and supplemented under cover letters dated June 26 and August 27, 1991, a description of the respective modification is included with each document (thus):

1. Drawing # 3531-1-58-18, entitled "Underground Installations", prepared by Foster Wheeler USA and dated June 26, 1991 (Additional Fire Hydrant); ,
2. DSC (Detroit Stoker Company) Dwg. 60223-DI3-L, Revision 3, dated August 5, 1991 (Steam Inerting Lines);
3. Drawing 3531-1-50-116, Revision 1, entitled "Header Flow Diagram... Cooling Water/Steam", prepared by Foster Wheeler USA and dated August 5, 1991,. (Steam Inerting Lines);
4. DSC Dwg. 60223-D15-1AL, Revision 2, dated August 5, 1991 (Flop Gate Control);
5. DSC Dwg. 60223-D15-8L, Revision 4, dated August 5, 1991 (Flop Gate Control);
6. Staneco Dwg. # 89-256-109, Revision 1, dated August 6, 1991 (Turbine Generator Load Rejection Enhancements);
7. Dwg. 3531-1-50-201, entitled "Engineer Flow Diagram - Steam Generators - Sheet 1", prepared by Foster Wheeler USA and dated June 25, 1991 (Ash-Dust Suppression);
8. Dwg. C905-562, Revision 1, dated August 5, 1991 (Ash-Dust Suppression);
9. Dwg. 3531-1-50-205, Revision 0, prepared by Foster Wheeler USA and dated August 7, 1991 (Emergency Fly Ash Bypass)
10. Drawing CR-51-713-1, Revision. H, prepared by Beaumont Birch and dated August 5, 1991 (Emergency Fly Ash Bypass); and
11. Dwg. 3531-1-51-7, Revision 4, prepared by Foster Wheeler USA and dated June 26, 1991 (Scalper Building Push Walls).

x. The following drawings were submitted to the Bureau of Resource Recovery under cover letter dated September 4, 1992, as part of the Solid Waste Facility Permit Renewal documents. These drawings represent modifications to the facility design.

1. Drawing Number 3531-1-58-3, Revision 7, entitled "Underground Installations - Shop and Office Areas", prepared by Foster Wheeler and dated August 27, 1992; (drawing describes certain curb cut and drain design changes in the line silo area).
2. Drawing Number 3531-1-58-5, Revision 5, entitled "Underground Installations - Boiler Building", prepared by Foster Wheeler and dated August 5, 1992; (eliminated trench in scalper building).

3. Drawing Number 3531-1-50-118, Revision 1, entitled "Engineering Flow Diagram... Wastewater Treatment", prepared by Foster Wheeler and dated August 20, 1992 (added acid injection to influent line).
  4. Drawing Number 3531-1-51-401, Revision 3, entitled "Piping Plan and Sections - Wastewater Treatment... (Area 4) 11, prepared by Foster Wheeler and dated August 27, 1992 (changed acid injection Arrangement and added polymer).
  5. Drawing Number C-885-497, Revision D, entitled "General Arrangement - Sectional Side Elevation" , prepared by Foster Wheeler and dated August 20, 1992 (changed Rotary Soot Blower to Oscillating).
  6. Drawing Number 89-7084-L4, Revision 7, entitled "114811 Conveyor... Plan & Elevation", prepared by Mid West Conveyor Co., Inc. and dated August 20, 1992 (added Drippings Chutes). This drawing later superseded by sketch SK #11-2-95 submitted in SW Permit Renewal Addendum dated November 3, 1995.
- y. Documents, sketches and drawings that were submitted to Sukhdev Bhalla, Chief, Bureau of Resource Recovery, from Bruce C. Studley, Vice President of Plant Operations, under cover letters dated October 2 and October 29, and November 11, 1992, submissions prepared in support of modifications to the waste water treatment system include:
- (Note: The Temporary Settling Basin operated for several months only, and plans for a permanent settling basin were withdrawn.)
- z. Documents and drawings submitted to Sukhdev Bhalla, Chief, Bureau of Resource Recovery, from B.C. Studley, Vice President of Plant Operations, under cover letter dated June 1, 1993, and supplemented under cover letters dated July 1, July 21, July 23, July 30 and August 20, 1993; submissions prepared to support modifications to the Ash Handling/Vibrating Conveyor Hood Systems include:
1. Drawings Numbered 3531-96-101, 102 and 103, Revision C, entitled "Hood Details", prepared, by Foster Wheeler and dated July 20, 1993.
  2. Drawing Number 3531-1-50-201, Revision 1, entitled "Engineering Flow Diagram - Boiler Island - Steam Generators - Sheet 1 of 211,, prepared by Foster Wheeler and dated June 28, 1993.
  3. Drawing Number 3531-1-50-205, Revision 2, entitled "Engineering Flow Diagram - Boiler Island Dry Scrubbers",, prepared by Foster Wheeler and dated June 28, 1993.
  4. Drawing Number 3531-1-50-207, Revision 1, entitled "11... Ash Handling System", prepared by Foster Wheeler and dated June 28, 1993.
  5. Drawing Number 3531-2-36-01, Revision 3, entitled "General Arrangement - Ash Handling System", prepared by Foster Wheeler and dated July 20, 1993.
  6. Drawing Number 3531-1-51-4, Revision 7, entitled "Equipment Arrangement - Boiler Island - ...Ground Fl. El. 100'-6" ", prepared by Foster Wheeler and dated June 28, 1993.

7. Drawing Number CR-51-713-1, Revision I, entitled "General Arrangement....Fly Ash Handling System... 11, prepared by Beaumont Birch Co., - and dated June 28, 1993.
  8. Drawing Number 3531-1-50-302, Revision E, entitled "Process Flow Diagram - Overall Water Balance", prepared by Foster Wheeler and dated July 18, 1993.
  9. Drawing Number C905-562, Revision .2, entitled "General Arrangement of Ash Extractor", prepared by Foster Wheeler and dated June 28, 1993.
  10. Drawing Number 92012-AE-100, Revision E, entitled "Preliminary Extractor Layout", prepared by Milestone Engineering and dated July 27, 1993.
- aa. Documents and drawings submitted to Sukhdev Bhalla, Chief, Bureau of Resource Recovery, from Bruce C. Studley, Vice President of Plant Operations, under cover letter dated May 10, 1993 and supplemented under cover letters dated March 21, April 21 and April 25, 1994; these submissions, prepared to support modifications to the Ferrous Recovery System, include:

1. Revisions to the Ash Management Plan (No. 5 and 6) dated March 15 and April 21, 1994, respectively.
2. Revisions to the Operation and Maintenance Manual, Volume 3, Section 11, Ash Handling System, dated March 15 and April 15, 1994.

Shaneway, Inc. Drawings

3. Drawing No. CC-1, Revision 2, dated December 23, 1993, entitled "Plan View of Ferrous Recovery System", signed and sealed op March 2, 1994 by Larry L. Teeling, N.J.P.E. License No. GE 32729.
4. Drawing No. CC-2, Revision 2, entitled "Sectional View of Ferrous System", dated December 23, 1993, signed and sealed on March 2, 1994 by Larry L. Teeling, N.J.P.B. License No. GE 32729.

Cummings & Smith Inc. Drawings

5. General Plan and General Notes, Drawing No. D-8812.11-G-1002, Sheet 2 of 21, dated March 25, 1994, signed and sealed by Daniel I. Shabat, N.J.P.E. License No. 34251.
6. Foundation Plan, Drawing No. D-8812.11-S-1001, Sheet 4 of 21, dated March 25, 1994, signed and sealed by Daniel I. Shabat, N.J.P.E. License No. 34251.
7. Floor Plan, Drawing No. D-8812.11-A-1001, Sheet 12 of 21, dated March 25, 1994, signed and sealed by Daniel I. Shabat, N.J.P.E. License No. 34251.
8. Roof Plan, Drawing No. D-8812.11-A-1002, Sheet 13 of 21, dated March 25, 1994, signed and sealed by Daniel I. Shabat, N.J.P.E. License No. 34251.
9. Elevations, Drawing No. D-8812.11-A-1003, Sheet 14 of 21, dated March 25, 1994, signed and sealed by Daniel I. Shabat,

N.J.P.E. License No. 34251.

10. Sections, Drawing No. D-8812.11-A-1004, Sheet 15 of 21, dated March 25, 1994, signed and sealed by Daniel I. Shabat, N.J.P.E. License No. 34251.

Foster Wheeler USA Corporation Drawings

11. Site Preparation Site Plan, Drawing No. 3531-1-4#03, Revision 7, dated March 14, 1994, signed and sealed by Bruce C. Studley, N.J.P.E. License No. 25102.
12. Scalping Building Area Concrete Paving Plan, Sects.& Details, Drawing No. 3531-1-41-416, Revision 1, dated March 14, 1994, signed and sealed by Bruce C. Studley, N.J.P.E. License No. 25102.
13. Engineering Flow Diagram, Section 200-Boiler Island, Ash Handling System, Drawing No. 3531-1-5007, Revision 2, dated March 14, 1994, signed and sealed by Bruce C. Studley, N.J.P.E. License No. 25102.
14. Equipment Arrangement Plan, Ash Storage and Loadout, Drawing No. 3531-1-51-7, Revision 6, dated April 15, 1994, signed and sealed by Bruce C. Studley, N.J.P.E. License No. 25102.
15. Key Plot Plan, Drawing No. 3531-1-51-100, Revision No. 3, dated March 14, 1994, signed and sealed by Bruce C. Studley, N.J.P.E. License No. 25102.
16. Underground Installations, Ash Storage Loadout-West, Drawing No. 3531-1-58-1, Revision 5, dated March 14, 1994, signed and sealed by Bruce C. Studley, N.J.P.E. License No. 25102.
17. Underground Installations, Precipitator Area, Drawing No. 3531-1-58-2, Revision 7, dated March 14, 1994, signed and sealed by Bruce C. Studley, N.J.P.E. License No. 25012.
18. Underground Installation, Ash Storage & Loadout-East, Drawing No. 3531-1-58-4, Revision 7, dated March 14, 1994, signed and sealed by Bruce C. Studley, N.J.P..E. License No. 25102. -
19. General Arrangement, Ash' Handling System, Drawing No. 3531-2-36-01, Revision 5, dated April 15, 1994, signed and sealed by Bruce C. Studley, -N.J.P.E. License No. 25102.

Note: The above listed documents reflect a design concept that has been approved by the Department, but has not been implemented by the Permittee. As such, the documents that reflect these design changes shall be considered void until such time as the changes are implemented.

- ab. Documents and drawings submitted under cover letter dated August 29, 1995, to Sukhdev Bhalla, Chief, Bureau of Resource Recovery, from Christian Clamser, Senior Project Engineer, Foster Wheeler, prepared in support of a Facility Minor Modification, the attached drawings include: .

1. "Key Plot Plan" - (Foster Wheeler USA Corporation) Drawing 3531-1-51-100, Rev. 3, dated August 25, 1995, signed and sealed by B.C. Studley, N.J.P.E. License 25102 (signed August 28, 1995).

2. "Site Preparation Site Plan" - (Foster Wheeler USA Corporation) Drawing 3531-1-41-402, Rev. 7, dated August 25, 1995, signed and sealed by B.C. Studley, N.J.P.E. License 25102 (signed August 25, 1995).
3. "Pac Silo Dosing System Standard Engineering Symbols" - (Norit Americas Inc.) Drawing Symbols, dated June 19, 1995, signed and sealed by B.C. Studley, N.J.P.E. License 25102 (signed August 28, 1995).
4. "Pac Silo Dosing System Piping and Instrumentation Diagram" - (Norit Americas Inc.) Drawing 4023-PD01, Rev. C, dated July 28, 1995, signed and sealed by B.C. Studley, N.J.P.E. License 25102 (signed August 28, 1995).
5. "Pac Silo Dosing System Piping and Instrumentation Diagram Train 1 and Train 2" - (Norit Americas Inc.) Drawing 4023-PD-02, Rev. C, dated July 28, 1995, signed and sealed by B.C. Studley, N.J.P.E. License 25102.
6. "Pac Silo Dosing System Piping and Instrumentation Diagram Train 3 and Train 4" - (Norit Americas Inc.) Drawing 4023-PD-03, Rev. C, dated July 28, 1995, signed and sealed by B.C. Studley, N.J.P.E. License 25102.
7. "Pac Silo Dosing System General Arrangement Silo Limits - Elevation" - (Norit Americas Inc.) Drawing 4023-GA-01, Rev. B, dated August 25, 1995, signed and sealed by B.C. Studley, N.J.P.E. License 25102 (signed August 28, 1995).
8. "Pac Silo Dosing System General Arrangement Front Elevation" - (Norit Americas Inc.) Drawing 4023-GA02, Rev. B, dated August 24, 1995, signed and sealed by B.C. Studley, N.J.P.E. License 25012 (signed August 28, 1995).
9. "Pac Silo Dosing System General Arrangement Interior Lighting - Plan View" - (Norit Americas Inc.) Drawing 4023-GA-03, Rev. A, dated July 18, 1995, signed and sealed by B.C. Studley, N.J.P.E. License 25102 (signed August 28, 1995).
10. "Norit Americas Foster Wheeler P.O. #AH-10133 Peabody TecTank 131-1111 x 471-4 1/411 Carbon Steel Welded Tank", Drawing D-60-14-52356-00, Rev. A, dated May 16, 1995, signed and sealed by Leonard Rusciani, N.J.P.E. License 10425 (signed July 31, 1995).
11. "Carbon Silo Foundation Plan", Drawing D-8812.16-S001, Sheet I of 1, dated August 2, 1995, signed and sealed by Gary L@ Smith, N.J.P.E. License GE.28113 (signed August 3, 1995).

The following documents were presented as part of the Solid Waste Facility Permit Renewal application made to the Bureau of Resource Recovery by the facility owner and permit holder, Camden County Energy Recovery Associates, L.P.

- ac. Documents and drawings submitted to Sukhdev Bhalla, Chief, Bureau of Resource Recovery, under cover letter dated September 4, 1992, from Bruce Studley, Vice President of Plant Operations. Certain documents included therein have been previously listed under sections w and x of this permit condition.

- ad. Documents and drawings submitted to Sukhdev Bhalla, Chief, Bureau of Resource Recovery & Transfer Facilities, under cover letter dated August 28, 1995, from Bruce Studley, Vice President of Plant Operations, in response to the Bureau's Notice of Deficiency (NOD) #1 dated April 28, 1995. This-NOD was developed as a result of the Bureau's first technical review of the renewal application.

Volume I relates to engineering and technical deficiencies noted by the Bureau during review.

Volume II relates to an administrative update to the A-901 disclosure procedure.

- ae. Documents and drawings submitted to Sukhdev Bhalla, Chief, Bureau of Resource Recovery & Transfer Facilities, under cover letter dated November 3, 1995 from Bruce Studley, Vice President of Plant operations, prepared in response to the Bureau's second technical review NOD #2 dated October 19, 1995. The submission includes:

Drawing/Sketch - No. 11-2-95, Revision 0, entitled "Modification to Existing Ash Conveyor Belt Scraper..." and dated November 3, 1995.

In case of conflict, the most recent revisions and supplemental information shall prevail over prior submittals and designs, and the conditions of this Permit shall supersede those of the engineering design and environmental impact statement referenced above.

5. Operations and Maintenance Manual

Changes to be made to the Final Operations and Maintenance (O&M) Manual shall be reviewed and approved by the Department in conformance with N.J.A.C. 7:26-2.11(b) 18. Within fifteen (15) days of its receipt, the submission made by the Permittee to revise the approved Final O&M Manual shall be characterized by the Department regarding, the nature of the revision relative to N.J.A.C. 7:26-2.6(d), and the Permittee shall be notified of the Department's finding. Any submission to revise the Final O&M Manual by the Permittee, which is determined by the Department to be a minor modification in accordance with N.J.A.C. 7:26-2.6(d) or is determined to require a minor technical review, shall be deemed approved unless denied within fifteen (15) calendar days of the date of its receipt.

6. Community Relations Plan

The Permittee shall implement the community relations plan, which identifies the steps the Permittee will take to transfer information to and solicit input from the community in which the facility, is located. The plan shall be maintained as a section of the Final - O & M Manual. At a minimum, the community relations plan shall provide for the following:

- a. Annual open meetings with local officials (or their representatives) and the general public of the district where the facility is located. Notification of the open meeting to be held shall also be provided to the general public of the district(s) serviced by the facility. The purpose of these meetings is to allow public input and to provide a forum for exchanging ideas; and,
- b. A notification procedure, whereby the public is provided a report of findings in the case of an emergency incident at the facility.



7. Facility Personnel Training

The Permittee shall comply with the following requirements pertaining to facility personnel training:

- a. All personnel who are directly involved in facility waste management activities or who operate, service, or monitor any facility equipment, machinery or systems shall successfully complete an initial program of classroom instruction and/or on-the-job training that includes instruction in the operations and maintenance of the equipment, machinery and systems which they must operate, service or monitor in the course of their daily job duties, and which teaches them to perform their duties in a manner that ensures the facility's compliance with the requirements of N.J.S.A. 7:26-1 et seq. and the conditions of all Departmental permits issued to this facility.
- b. The training program shall be directed by a person thoroughly familiar with the technology being utilized at the facility, the applicable waste regulations contained within N.J.A.C. 7:26-1 et seq., and the Conditions of the facility's Permits.
- c. The training program shall ensure that facility personnel are able to respond effectively to any equipment malfunction or emergency situation that may arise. The training program shall provide instruction in the use of personal safety equipment; procedures for inspecting and repairing facility equipment; machinery and monitoring systems (including any emergency equipment); the use of communications and alarm systems; the procedures to be followed in response to fires, explosions, or other emergencies; and the procedures to be followed during planned or unplanned shutdown of operations.
- d. Facility personnel shall successfully complete the initial training program within six (6) months of the date of their employment or assignment to the facility. Employees shall not work in unsupervised position until they have completed the training program.
- e. Facility personnel shall take part in -an annual review of the initial training program.
- f. Training-records that document the types and amounts of training received by current facility personnel shall be kept until closure of the facility. Training records on former employees shall be kept for at least one (1) year from the date the employee last worked at the facility.
- g. The Permittee shall maintain a written training plan which includes the types and amounts of both the initial and follow-up training to be provided to facility personnel. This written plan shall be maintained as a section of the Final O & M Manual.

8. Facility Staffing

The facility shall maintain sufficient trained staff during each scheduled shift to assure the proper and orderly operation of all system components, along with the ability to handle all routine facility maintenance requirements. Such personnel shall have sufficient educational background, employment experience, and/or training to enable them to perform their duties in such manner as to ensure the facility's

compliance with applicable Department regulations and permits, the conditions of this Permit and all other permits or approvals issued to the facility, and the safe operation of the specific processes utilized at the facility.

Each scheduled shift shall have a fully trained and qualified facility representative who is designated and authorized by the Permittee to direct and implement all operational decisions during that shift, and who shall also serve as the designated emergency coordinator for the implementation of any emergency procedures in accordance with condition Number 23 of this Permit. The facility's plant manager and/or operations manager shall also remain on call at all times to provide assistance during emergency situations.

Additionally, the facility shall have under contract a New Jersey licensed professional engineer as a consultant or (preferably) on staff, to oversee the general facility operations. This engineer shall possess experience in the design and operation of the major system components and equipment that constitute the facility. If on staff, this engineer may also serve as the plant or operations manager.

9. Waste Delivery Schedule

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

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

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

10. Haulage-Vehicles

The Permittee shall allow only vehicles properly registered with the Department, for the transportation of wastes, pursuant to N.J.A.C. 7:26-3, to deliver and deposit wastes at the facility, or to remove residues, unprocessable or bypass materials from the facility.

The Permittee shall implement the necessary steps to prevent the continued acceptance of any haulage vehicles not equipped with exhaust silence systems or that create excessive noise. The Permittee shall maintain a program to notify affected vehicle owners of the problem and to inform said owners that the situation must be corrected or the vehicle will be denied access to the facility.

11. Waste Delivery Haul Routes

The Permittee shall aid and assist the Camden County Office of Solid Waste Management, to the maximum extent possible, in ensuring that the designated primary refuse truck delivery routes from and to each collection area served by the facility are adhered to as shall be prescribed in the approved Camden County Solid Waste Management Plan.

12. On-Site Traffic Control

On-site traffic control measures shall be maintained to provide for orderly vehicular movement on the facility grounds. The measures

implemented shall include the appropriate use of lane delineations, signals, signs, barriers or any combination thereof to ensure a controlled flow of traffic delivering waste to the facility through the scale to the tipping floor, then leaving the tipping floor and exiting the facility through the scale. Trucks carrying ash residue, recovered metals, unprocessable wastes or bypass wastes from the facility shall be similarly controlled and directed to minimize interference with waste delivery traffic. All onsite roadways used by haulage vehicles shall be constructed in accordance with standards for heavy truck usage, and shall be maintained in accordance with these standards. Signs shall be posted on all facility roadways indicating a maximum speed limit for the facility site.

13. Waste Acceptance and Processing Rates

- a. At no time shall waste be delivered to the facility at a rate exceeding the facility's capacity to store and process such waste. Waste storage is allowed in only those areas specifically identified in the design for said purposes. Under no circumstances shall waste be deposited beyond the confines of the refuse pit, except for the purpose of conducting incoming waste load inspections and holding unauthorized materials in accordance with Condition Number 14, or storing unprocessable materials such as oversize bulky waste in accordance with Condition Number 25, or unless otherwise approved by the Department.

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

- b. The facility shall not process waste in excess of 451,140 tons per reporting year as determined by means of the facility truck scale records, used in conjunction with a pit level determination made at the beginning of each reporting year to adjust for the storage differential. For the purposes of definition, the reporting period shall begin January 1 and end December 31 of the same year. (The quantity of waste charged annually shall be prorated over that remaining portion of the calendar year of facility operation at the time of permit renewal, so that the annual limit established herein shall not be exceeded.) The facility's rate at which it can process solid waste shall be further limited to a maximum steam production rate of 421,600 pounds per boiler (at a temperature of approximately 750 degrees F. and a pressure of approximately 660 psig) over any discrete block four (4) hour average period of time (i.e., 12 - 4 A.M., 4 - 8 A.M., 8 - 22 P.M., etc.).

14. Unauthorized waste

A program shall be maintained to detect and remove unauthorized and prohibited wastes from the waste stream entering the facility. This program shall include the recyclables inspection plan to be included in the approved Final Operations and Maintenance Manual, and at a minimum, shall also include the following steps:

- a. The Permittee shall maintain a sign at or near the scale house which

clearly indicates acceptable and prohibited waste types. The penalties for false certification and unauthorized waste delivery shall also be included on the sign.

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

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

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

- Drums or other large metal, plastic or fiberboard containers with unknown contents
- Bulk sludge(s) or wet solids not characteristic to municipal solid waste
- Large amount of oil or liquid-soaked solids or sorbents
- Military ordnance or other explosives
- Large pressurized containers
- Any suspicious, enclosed package

Any suspected hazardous waste, drums, or liquids, found in a load accepted at the facility shall not be returned to the generator. Such materials shall be segregated and stored in a secure manner, and the discovery of any suspected hazardous wastes at the facility shall be immediately reported to the N.J.D.E.P. Environmental Action Line at (609) 292-7172. The Permittee shall secure the name of the collector-hauler suspected of delivering hazardous waste to the facility and related information surrounding the incident, if available, and shall make this information known to the Department's enforcement personnel.

15. Maintenance and Repair

Through an effective inspection, planned maintenance, repair and parts replacement program, the facility systems and related appurtenances shall at all times be kept in proper operating order. As part of this program, the Permittee shall maintain an appropriate inventory of spare parts and replacement equipment. Malfunction of any instrumentation used to monitor process operations for environmental effects, that prevent the continual processing of waste in compliance with this Permit, shall be considered a major equipment malfunction as defined in Condition 23 of this Permit, and action shall be taken accordingly.

The results of all inspections shall be recorded in bound inspection logs. These records shall be maintained centrally in the facility for a minimum of five (5) years from the date of inspection. These records shall include the date and time of the inspection, the name of the inspector, a notation of observations and recommendations, and the date and nature of any repairs or other remedial actions taken. The records shall be made available for inspection by appropriate representatives of the Department upon request.

16. Housekeeping

Routine housekeeping and maintenance procedures shall be implemented within the facility interior to prevent the accumulation of dust and debris, and to maintain general cleanliness in the working environment. The tipping floor shall be cleaned at least once daily.

Facility exterior grounds shall be maintained in a manner free of litter and debris, and accumulations of unprocessed waste, process end products and residues. All on-site paved areas, and the access road intersection with Morgan Boulevard, shall be swept routinely to minimize the accumulation of loose dirt and debris on the paved surfaces.

Unprocessed waste feedstocks, recovered ferrous metals, facility process waste residues and effluent(s) stored in pits, bins or similar containment vessels, shall at all times be kept at levels that prevent spillage or overflow. All facility floor drains, traps, sumps or similar catchment basins shall be maintained free of obstructions to facilitate effluent drainage.

17. Building Exterior Facings and Landscaping

The exterior facings of all facility buildings or similar structures shall be maintained in a manner in keeping with the original design intent to enhance the appearance of the property.

All vegetation planted as part of the landscaping plan shall be maintained and replaced as needed.

18. Wastewater Disposal

Wastewater discharges from facility operations and sanitary sources shall only be directed to the system designed and approved for the acceptance of such discharges, and shall comply with the provisions of- the agreement between the Permittee and the Camden County Municipal Utilities Authority (CCMUA). Sludge and solid residues collected from the facility's process wastewater collection system and settling basin shall be characterized for disposal in accordance with the 'waste classification requirements of N.J.A.C. 7:26-1 et seq. and requirements of the Department's Hazardous Waste Regulation Program.

19. Noise Control

Noise control measures shall be maintained so that sound levels generated by the facility operation shall not exceed the standards set forth by the New Jersey State Noise Control Regulations, N.J.A.C. 7:29-1et seq.

20. Odor Control

The operation of this facility shall not result in odors associated with solid waste being detected off-site by sense of smell in any area of human use or occupancy.

The tipping floor entrance and exit doors shall remain closed at all times other than the normal, scheduled refuse truck delivery hours.

The refuse storage pit and tipping area shall be maintained at a negative pressure to prevent the release of odors to the ambient air. Air drawn off from these areas shall be utilized in the combustion chambers.

If a facility outage or other condition results in odors detectable off-site, a commercial/industrial strength odor-masking agent shall be applied

in the refuse pit area. Should a total facility outage occur, and said outage is determined to be long-term in nature (that is, longer than three days), the Permittee shall remove all waste in storage at the facility and dispose of it at the appropriate disposal facility, in accordance with N.J.A.C. 7:26-6.

21. Vermin-Control

The Permittee shall institute and maintain an effective vermin control program at the facility directed by a qualified applicator of pesticides in accordance with the New Jersey Pesticides Control Code, N.J.A.C. 7:30-1.1 et seq.

22. Fire Protection

The fire detection and protection system shall be maintained in operable condition at all times. Fire-fighting equipment shall be available on-site or on call to extinguish any and all fires. Fire-fighting procedures shall be posted, and shall include the telephone numbers of local fire, police, ambulance and hospital facilities.

23. Emergencies and Malfunctions

An emergency situation is defined as the occurrence of a fire, explosion or uncontrolled pollutant discharge or emission to the environment. In the case of an emergency, the plant operator or the emergency coordinator identified in the contingency plan shall implement the following actions:

- a. Immediately identify the character, exact source, amount and extent of any discharged materials and notify appropriate State or local agencies with designated response roles, if assistance is needed.
- b. Concurrently the plant operator or emergency coordinator shall assess possible hazards to public health or the environment that may result from the discharge, fire or explosion. This assessment shall consider both direct and indirect effects.
- c. If the plant operator emergency coordinator determines that the facility has had an uncontrolled discharge, a discharge above standard levels permitted by the Department, or a fire or explosion, he shall:
  - i. Immediately notify appropriate local authorities if an assessment indicates that evacuation of local areas may be advisable;
  - ii. Immediately notify the Department at (609)292-7172; and
  - iii. When notifying the Department, report the type of substances and the estimated quantity discharged, if known, the location of the discharge, actions the person reporting the discharge is currently taking or proposing to take in order to mitigate the discharge, and any other information concerning the incident which the Department may request at the time of notification.

Nothing in this condition shall be deemed to supersede any notification required pursuant to the Spill Compensation and Control Act, N.J.S.A. 58:10.23 et seq., Hazardous Substance Discharges: Reports and Notices, N.J.A.C. 7:1-7, or the air pollution notification required pursuant to N.J.S.A. 26:2C-19.

- d. The plant operator shall take all reasonable measures to ensure that fires, explosions and discharges do not recur or spread to other areas of the facility. These measures must include, where applicable, the cessation of process operations and shall involve the collection and containment of released waste.
- e. Immediately after an emergency, the plant operator or emergency coordinator shall provide for the appropriate treating, storing or disposing of waste, contaminated soil or water, or any other material contaminated as a result of the discharge, fire or explosion.
- f. The plant operator or emergency coordinator shall ensure that no waste is processed in the affected unit or area until cleanup procedures are completed and all emergency equipment listed in the contingency plan is again fit for its intended use.
- g. The plant operator or emergency coordinator shall notify the Department and appropriate local authorities when operations in the affected area(s) of the facility have returned to normal.

For incidents not covered by other Department rules and reporting requirements, the plant operator or emergency coordinator shall submit a written report on the incident to this Division within fifteen (15) days after the incident. The report shall include, but not be limited to: the name, address and telephone number of the facility; the date, time and description of the incident; the extent of the injuries, if applicable, with names and responsibilities indicated; an assessment of actual damage to the environment, if applicable an assessment of the scope and magnitude of the incident; description of the immediate actions that have been initiated to clean up the affected area and prevent a recurrence of a similar incident; and an implementation schedule for undertaking longer-term measures to effect cleanup and avoid recurrence of the incident, if applicable.

A major equipment malfunction is defined as an instance whereby a system control or equipment malfunction occurs that could result in an impact adverse to the environment or public health that prevents the continual processing of waste in compliance with this Permit. In the case of such an emergency situation, the Permittee shall undertake corrective actions immediately and shall notify the Department within three (3) days.

The notification shall outline the cause of malfunction, the corrective action taken, and the anticipated repair time. Wastes that cannot be accepted at the facility due to equipment or system malfunction or the occurrence of an emergency situation, or wastes already in storage at the facility that cannot be processed due to a long-term facility outage, shall be disposed of in accordance with the approved District Solid Waste Management Plans, at the facility designated to receive such wastes.

24. Security

Access to the site shall be restricted to facility personnel and authorized visitors only. Security procedures shall be maintained that provide for an effective means of controlling entry and exit at all times. Guards, attendants, visual monitors, or locked gates shall be utilized at all site entrance and exit points. Security fencing with gate controls shall be maintained around the entire facility perimeter.

25. Non-Processibles. Process Residue and Recovered Metals Handling and

## Storage

All non-processible waste materials and process residues shall be stored within the confines of an enclosed facility building at all times prior to removal from the site. Exterior storage of non-processible waste materials, process residues and recovered ferrous on the site is expressly prohibited.

Storage of ash residue, recovered ferrous metal and scalped materials shall occur in designated area's within the Ash Load-Out Building.

Over ten (10) inch material shall be collected on the floor of the grizzly-scalper building and moved as needed to the Ash Loadout Building by front-end loader, where the material shall be directly loaded into a portable container and stored until removed from the facility. Routine sweeping of the area between the scalper building and the ash storage building shall be conducted; at a minimum, sweeping shall occur on a daily basis unless limited by weather conditions. The Department reserves the right to re-evaluate the handling and storage of this material in this manner should good housekeeping methods not be maintained.

Oversize bulky wastes, such as unprocessible "white goods" and bulk quantities of recyclable materials, shall be stored in containers located in designated areas of the tipping hall.

### 26. Processing Residue Disposal and Beneficial Reuse Approval

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

- a. A valid contract with the owner(s) of landfills designated to receive bypass waste, non-processible waste, and non-hazardous ash residue, and the haulage firm(s) designated to handle said materials. Copies of any new contracts shall be submitted to the Department, when executed.
- b. A final contingency plan for the secure handling, storage, transport and disposal of ash residue that may be found to be hazardous after analysis, and any suspect hazardous waste segregated from the incoming waste received at the facility.
  - i. As part of the final contingency plan, a formal contract shall be executed and maintained with a licensed hazardous waste disposal facility for the purpose of disposing any ash residue generated that may be proven hazardous after analysis, as well as any suspect hazardous waste segregated from the incoming waste received at the facility. Copies of any new contracts shall be submitted to the Department when executed.
  - ii. The Permittee shall maintain written procedures for the hazardous waste manifest program that will be followed, in accordance with Federal and State requirements. Ash residue and any unacceptable waste materials that may be found to be hazardous after analysis, shall be transported by a licensed hauler to the licensed hazardous waste disposal facility retained by the Permittee for that purpose.
- c. A finalized plan shall be maintained for the secured storage of ash residue, pending the receipt of the analytical results used in the classification of residue for disposal, during any ash residue recharacterization analysis that may be required. If such storage cannot be accommodated and/or approved by the Department, residue



generated during any such period shall be manifested and transported as hazardous waste and disposed of in accordance with its classification and the applicable laws in the State of disposal.

- d. The beneficial reuse of facility generated ash residue shall be provided for through the use of the Rolite facility in New Castle, Delaware, for reuse of the ash residue material as an aggregate and cover material in the following landfills:

Lanchester Sanitary Landfill (LF)  
Lancaster County, Pennsylvania

Delaware Solid Waste Authority - Cherry Island LF  
Dover, Delaware

Delaware Recyclable Products - New Castle LF  
New Castle, Delaware

The Permittee shall provide for properly maintaining the appropriate agreements and contracts with the necessary hauling firms and the Rolite facility for transportation and delivery arrangements, respectively. Up to 8,000 tons per month of ash residue material shall be delivered to the Rolite facility, and consistency with the Camden Solid Waste Management Plan shall be insured as well.

The O&M Manual shall be updated to include a contingency plan in the event that ash residue should be determined to be hazardous by confirmatory testing, after the residue had been transported to the Rolite facility for processing into aggregate.

27. Residual Ash Monitoring Program

A residual ash monitoring program shall be maintained by the Permittee for the purpose of assessing the chemical characteristics of the residue ash generated by facility operations.

As a minimum, this monitoring program shall make provision for the following:

- a. A sampling and analysis regimen that shall consist of the following, unless otherwise directed by the Division of Solid and Hazardous Waste:

- i. Confirmatory Analysis - once the residue stream has been characterized as to its hazardous/nonhazardous characteristics (see ii. below), during each subsequent month of facility operation, daily composite samples shall be collected, and further composited into a representative monthly composite sample. Each of the monthly composite samples shall be analyzed for the following test parameters using Toxicity Characteristic Leaching Procedures (TCLP):

Arsenic	Lead
Barium	Mercury
Cadmium	Selenium
Chromium	Silver

Additionally, the representative December monthly composite sample shall also be analyzed for total 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD), using methods acceptable to the Department.

The Permittee shall retain an equivalent portion of each monthly composite sample collected, so that the Department may conduct follow-up analyses when necessary. The samples retained shall be clearly marked for identification, appropriately preserved using approved techniques, and stored at the facility for a period of sixty (60) days from the date the composited sample is transferred to the laboratory for analysis.

The Permittee shall dispose of the facility generated ash residue at a facility authorized and permitted to receive the waste type identification number assigned to the ash residue pursuant to classification through analysis, as specified in the Camden County District Solid Waste Management Plan.

- ii. Re-Characterization Analysis - A new eight (8) week ash residue characterization period may be required by the Department if: there is a significant change in facility processes and/or operations; if there is a significant change in the type of waste(s) received for disposal at the facility; or if the results of the Confirmatory Analysis demonstrate that one or more of the parameters exceed the TCLP regulatory limits or exceed one part per billion of 2,3,7,8-TCDD.

Re-Characterization Analysis will be parameter specific in the instance where the Confirmatory Analysis indicates concentrations in the sample extract are above the defined regulatory threshold for that parameter, resulting in that waste residue requiring reclassification as a hazardous waste, or where the concentration of 2,3,7,8-TCDD is found to be equal to or in excess of one part per billion. Otherwise, the full spectrum of listed TCLP parameters will be required along with total 2,3,7,8-TCDD.

During any new eight (8) week characterization period, representative composite samples shall be collected on a daily basis and further composited into representative weekly samples. The Permittee shall retain an equivalent portion of each weekly composite sample collected during this eight (8) week period so that the Department may conduct follow-up analyses when necessary. The samples retained shall be clearly marked for identification, appropriately preserved using approved techniques, and stored at the facility for a period of sixty (60) days from the date the composited sample is transferred to the laboratory for analysis.

During the eight (8) week residue Recharacterization period, each week's residual ash shall be stored separately until the analytical results from that week's composite sample are received, and a determination is rendered on the hazardous or non-hazardous nature of the material.

If the results of the analyses equal or exceed the TCLP parameter specific regulatory threshold, or equal or exceed one (1) part per billion of 2,3,7,8-TCDD, or if the residue material is otherwise determined to be hazardous by the Division of Solid and Hazardous Waste based upon the analytical results, that ash shall be disposed of at the hazardous waste disposal facility secured by the Permittee for that purpose pursuant to Condition Number 26 of this Permit.

If the material is determined to be non-hazardous, it shall be disposed of at the landfill designated to receive that waste type, as specified at N.J.A.C. 7:26-6 and in the Camden County District Solid Waste Management Plan.

At the completion of the eight (9) week period of the Re-Characterization Analysis, the sampling and analysis regimen outlined for Confirmatory Analysis shall not be re-instituted without express approval from the Division of Solid and Hazardous Waste.

- b. All analyses called for as a condition of this Permit shall be performed by a laboratory approved and/or certified by the Department for those specific analyses. All samples shall be collected from the ash residue conveyors prior to the point of discharge to the ash pit. Samples collected for analytical purposes shall contain both bottom and fly ash wastes in a mixed ratio representative of the composite ash residue slated for disposal. To prepare the daily composite samples, one grab sample of sufficient size and of equal proportion shall be collected every hour and ultimately composited into the representative daily sample. The resulting daily samples shall be further composited into weekly or monthly samples (as appropriate), and a minimum of four (4) samples shall be taken from the composite for analyses.

Analyses shall be performed in accordance with the procedures outlined in the most recent edition of Test Methods for Evaluating Solid Waste - Physical/Chemical Methods, U.S. EPA publication SW-846. Results shall be subject to statistical analysis as outlined in this same publication. The Permittee shall submit each set of analytical results, with the appropriate statistical analysis, to the Division of Solid and Hazardous Waste immediately upon the receipt of said results. The following information shall accompany the analytical determinations:

- i. The date(s), time(s) and place of sampling and analysis;
  - ii. Chain of custody for all samples collected;
  - iii. The name(s) of the individual(s) who performed the sampling, compositing and analysis;
  - iv. The sampling and analytical methods used and/or protocols followed (include the minimum detection levels of the parameters for analysis being undertaken; and in the case of TCLP determinations, the initial and final pH of the sample); and
  - v. The dated signature and certification of the sampling and analytical report by an authorized agent of the Permittee.
- c. The Permittee shall retain all analytical reports at the facility for a period of five (5) years from the date of analysis.
- d. The Permittee shall increase the monitoring frequency and/or expand the list of parameters for which testing is to be performed, should the waste types or quantities of waste types received for processing be significantly altered. The Department reserves the right to alter, at its discretion, the list of test parameters, the methods of sample collection, the analytical procedures employed, and the

frequency of sampling and analysis, as is deemed necessary.

The Permittee may petition the Department to reduce the number of test parameters specified herein by applying qualitative knowledge of incoming waste streams. Further, if the Permittee has demonstrated through testing that the concentration of any given parameter is found to be consistently below detection levels, the Permittee can petition the Department to eliminate that parameter from subsequent analysis.

28. Ash Residue Removal

All ash residue and recovered metal removal truck bodies or containers shall be sealed to prevent leakage, and shall not be filled to levels that permit overflow or spillage during transport. The ash residue removal truck bodies or containers shall be covered to prevent spillage or scattering by wind during transport. Trucks removing recovered metals shall also be covered to prevent spillage during transport, if the material is loaded above the level of the container or truck body. Trucks removing recovered metals, which are loaded in a manner such that, the material does not extend above the level of the container or truck body, are not required to be covered.

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

The grizzly operation shall be isolated and enclosed within the Boiler House to minimize dust migration. Oversize pieces removed from the grizzly screen shall be stored for periodic removal to the Ash Load-Out Building for further loadout and ultimate disposal. At such time as the Permittee implements design changes for the construction of the storage enclosure, scalped materials shall then be stored in such enclosure.

Excess water drained from the ash residue at any point in its handling, storage and loading shall be directed to the Wastewater Equalization Basin.

Ash residue removal trucks shall leave the facility promptly after being loaded; on-site storage of ash residue in loaded trucks is prohibited. To the maximum extent possible, ash removal operations shall be conducted during off-peak period of traffic on the surrounding public roadways. Ash residue removal trucks shall arrive and depart via the Morgan Boulevard off- and on-ramps of I-676.

29. Operations Records

The Permittee shall maintain records of facility operations on a daily basis. The Permittee shall submit a monthly summary report of the daily totals for the reportable items listed below, which shall also include the monthly totals for each item. This report shall be submitted to the Division of Solid and Hazardous Waste before the 15th of the following month. All such reports shall be signed, certified, and dated by an appropriate authorized agent for the facility. The information submitted shall include, but not be limited to the following:

- a. The weight and origin of solid waste delivered to the facility for each waste type authorized by this Permit;

- b. The weight of unprocessable solid waste removed for alternate disposal, and the facility receiving that waste for disposal;
- c. The weight of ash residue removed for disposal, and the facility(s) receiving the residue for disposal;
- d. The weight of recovered metal removed, and the facility receiving the recovered material;
- e. The quantity of steam generated . (in pounds) for each combustion unit over each discrete block average four (4) hour period of time;
- f. The total electrical energy generated (in kilowatt-hours per day) and the net electrical energy exported; and,
- g. The quantity of co-generated steam sold (in pounds per day).

Operations records shall be maintained on the premises for a five (5) year period, and shall be made available for inspection by the Department, upon request.

All printed or electronically recorded records, generated by the facility's monitoring and control systems through log printers, strip-chart recorders or other means, shall also be kept on file at the facility for a period of at least five-(5) years from . the date of data collection, and such records shall be made available for inspection by the Department upon request.

30. Plans On-Site

One complete set of the following documents shall be kept on file at the facility, and shall be available for inspection by Department personnel or its designated representatives.

- a. The Environmental and Health Impact Statement, with Appendices and Addenda;
- b. Plans and drawings;
- c. The Final Operations and Maintenance Manual;
- d. The Applications and support documents for all permits obtained, including any Permit Renewal applications and associated documents;
- e. This Permit and its conditions for operation; and
- f. All other permits with their conditions.

31. Right of Entry

The Permittee hereby agrees and authorizes Department personnel or the Department's designated representatives to make whatever inspections and examinations of all premises occupied by the facility, which may be impacted by the activities authorized by this Permit, whenever these representatives, in their discretion, consider such an inspection or examination necessary to determine the extent of compliance with the conditions of this Permit. Any refusal to allow entry to the Department's representatives shall constitute grounds for either suspension or revocation of this Permit.

32. Accommodations for Departmental Inspectors

The Permittee shall provide permanent office space at the facility to accommodate a Department inspector, on a daily basis, during all facility operating hours. The Permittee shall allow entry to the inspector at any time during the facility operating hours. The inspector's work space shall be equipped with the appropriate computer hardware, including a display screen, that will allow for access to the facility's automated process monitoring, control and information system. The computer hardware system shall allow the inspector to observe the same operational and control information that is available to the facility operations station in the central control room.

33. Duration of Permit

This Solid Waste Facility Permit (Renewal) is for a maximum period of five (5) years from the date of its issuance. This Permit may be renewed at that time upon proper application, in accordance with N.J.A.C. 7:26-2.7.

34. Conformance with the Solid Waste Management Plans

This Permit is conditioned upon conformance with all requirements of the Camden County District and State Solid Waste Management Plans as adopted and promulgated pursuant to N.J.S.A. 13:1E-1 et seq. No wastes other than those directed to this facility under said plans may be accepted for processing/disposal, except for waste category ID#-13C. Similarly, waste residues generated by facility operations shall be disposed of in conformance with N.J.A.C. 7:26-6 and these solid waste management plans.

Failure to comply with any or all limitations heretofore mentioned will result in the Department seeking relief under the Solid Waste Management Act, N.J.S.A. 13:1E-1 at et seq. Specifically, each day of failure to so comply shall constitute a separate violation on the basis of which a penalty shall be assessed and may result in loss of operating authority, pursuant to N.J.S.A. 13:1E-12.

The Issuance of this Permit and the conditions of operation identified herein shall not be interpreted as relieving the Permittee of his responsibility to secure and maintain all other applicable Federal, State and local permits, or similar forms of authorization relating to the (construction and) operation of this facility.