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State of Florida
Department of Environmental Regulation
Pasco County Resource Recovery Facility
Case No. PA 87-23
CONDITIONS OF CERTIFICATION

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Department of Environmental Protection
BY SOUTHWEST DISTRICT

TABLE OF CONTENTS

I.	Change in Discharge	1
II.	Non-Compliance Notification	1
III.	Facilities Operation	2
IV.	Adverse Impact	3
V.	Right of Entry	3
VI.	Revocation or Suspension	4
VII.	Civil and Criminal Liability	4
VIII.	Property Rights	4
IX.	Severability	4
X.	Definitions	5
XI.	Review of Site Certification	5
XII.	Modification of Conditions	5
XIII.	Construction	6
	A. Control Measures	6
	1. Stormwater Runoff	6
	2. Burning	7
	3. Sanitary Wastes	7
	4. Solid Wastes	7
	5. Noise	8
	6. Dust	8
	7. Transmission Lines	8
	8. Protection of Vegetation	8
	9. Dewatering Operations	8
	B. Environmental Control Program	9
	C. Reporting	9
XIV.	Operation	9
	A. Air	9
	1. Emission Limitations	10
	2. Emission Control Equipment	12
	3. Air Monitoring Program	12
	4. Reporting	13
	5. Unconfined Emissions	13

B.	Fuel	14
C.	Wastewater Disposal	14
D.	Water Discharges	15
	1. Surface Water	15
	2. Groundwaters	15
	3. Groundwater Monitoring Program	15
E.	Solid/Hazardous Waste	17
F.	Operational Safeguards	20
G.	Transmission Lines	22
H.	Noise	22
XV.	SWFWMD Surface Water Permitting	23
	A. Land Development	23
	B. Stormwater Control	23
	C. Well Plugging	23
	D. Pond Slopes	23
	E. Liability	23
	F. Plan Review	23
XVI.	SWFWMD Consumptive Use Permitting	24
	A. Accuracy of Information	24
	B. Reasonable Use	24
	C. Reservations	24
	D. Withdrawal Limits	24
	E. Water Shortage	25
	F. Sampling	25
	G. Access	25
	H. Reconsideration	25
	I. Minimum Water Levels	26
	J. Conservation	26
	K. Flow Measurement	26
	L. Reporting	26
	M. Water Quality Sampling	27
XVII.	SWFWMD - Ashfill/landfill	28
	A. Preoperational Limitation	28
	B. Unprocessed Waste Limitation	28
	C. Waste Segregation	28
	D. Leachate Monitoring	28
	E. Appliances and Machines	29
XVIII.	Operational Contingency Plans	30
XVIII.	Transfer and/or Assignment	31
XIX.	Proprietary Documents or Information - Confidentiality	31
XX.	Gopher Tortoise Management Plan	31
XXI.	Cooling Tower	32

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I. CHANGE IN DISCHARGE

All discharges or emissions authorized herein shall be consistent with the terms and conditions of this certification. The discharge of any regulated pollutant not identified in the application, or more frequent than, or at a level in excess of that authorized herein, shall constitute a violation of the certification. Any anticipated facility expansions beyond the certified initial nameplate capacity of 1,200 TPD, production increases, or process modifications which may result in new, different, or increased discharges of pollutants, change in type of fuel as described in XIV.8., or expansion in steam generating capacity must be reported by submission of a supplemental application pursuant to Chapter 403, Florida Statutes.

II. NON-COMPLIANCE NOTIFICATION

If, for any reason, the Permittee (defined as the Applicant or its successors and or assigns) does not comply with or will be unable to comply with any limitation specified in this certification, the Permittee shall notify the Southeast Florida District Office of the Department of Environmental Regulation (Southeast District Office) by telephone within a working day that said noncompliance occurs and shall confirm this in writing within seventy-two (72) hours of becoming aware of such conditions, and shall supply the following information:

- A. A description of the discharge and cause of noncompliance; and
- B. The period of noncompliance, including exact dates and times;

or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying event.

III. FACILITIES OPERATION

The Permittee shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems installed or used by the Permittee to achieve compliance with the terms and conditions of this certification. Stoppages of landfill operations induced by weather conditions shall be allowed until the weather permits operations to resume. In the event of a malfunction of a resource recovery boiler's pollution control system that unit's furnace emissions must be shifted to the extent feasible to one or both of the remaining units having a properly functioning pollution control system. In the event of a prolonged (thirty (30) days or more) equipment malfunction or shutdown of air pollution control equipment, operation could be permitted to continue to take place under a consent order, only if the Permittee demonstrates that such operation will be in compliance with all applicable ambient air quality standards and PSD increments, solid waste rules, domestic waste rules and industrial waste rules. Additionally, during such malfunction or shutdown, the source shall comply with all other requirements of this certification and all applicable state and federal emission standards not affected by the malfunction or shutdown which is the subject of the consent order. Administrative action will not be initiated in the event of such a malfunction for 25 days following a malfunction unless there is an imminent health threat. However, if at thirty (30) days following a malfunction compliance has not been achieved by the source, an Order for Corrective Action may be immediately imposed upon the Applicant, subject to the provisions of Chapter 120 of the Florida Statutes. Operational stoppages exceeding two hours for air pollution control systems or four hours for other systems or operational malfunctions as noted below exceeding two hours for air pollution control systems or four hours for other systems and

as defined in the operational contingency plans as specified in Condition XVII are to be reported as specified in Condition II. Identified operational malfunctions which do not stop operation but do compromise the integrity of the operation shall be reported to the Southwest District Office as specified in Condition II.

IV. ADVERSE IMPACT

The Permittee shall take all reasonable steps to minimize any adverse impact resulting from noncompliance with any limitation specified in this certification, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

V. RIGHT OF ENTRY

The Permittee shall allow during operational or business hours the Secretary of the Florida Department of Environmental Regulation and/or authorized representatives, upon the presentation of credentials:

- A. To enter upon the Permittee's premises where an effluent source is located or in which records are required to be kept under the terms and conditions of this certification, and
- B. To have access during normal business hours (Mon.-Fri., 9:00 A.M. to 5:00 P.M.) to any records required to be kept under the conditions of this certification for examination and copying, and
- C. To inspect and test any monitoring equipment or monitoring method required in this certification and to sample any discharge or pollutants, and
- D. To assess any damage to the environment or violation of ambient standards.

VI. REVOCATION OR SUSPENSION

This certification may be suspended or revoked for violations of any of its conditions pursuant to Section 403.512, Florida Statutes.

VII. CIVIL AND CRIMINAL LIABILITY

This certification does not relieve the Permittee from civil or criminal penalties for noncompliance with any conditions of this certification, applicable rules or regulations of the Department or Chapter 403, Florida Statutes, or regulations thereunder.

Subject to Section 403.511, Florida Statutes, this certification shall not preclude the institution of any legal action or relieve the Permittee from any responsibilities or penalties established pursuant to any other applicable State Statutes, or regulations.

VIII. PROPERTY RIGHTS

The issuance of this certification does not convey any property rights in either real or personal property, nor any exclusive privileges, nor does it authorize any injury to public or private property or any invasion of personal rights nor any infringement of Federal, State or local laws or regulations.

IX. SEVERABILITY

The provisions of this certification are severable, and if any provision of this certification or the application of any provision of this certification to any circumstances, is held invalid, the application of such provisions to other circumstances and the remainder of the certification shall not be affected thereby.

X. DEFINITIONS

The meaning of terms used herein shall be governed by the definitions contained in Chapter 403, Florida Statutes and any regulations adopted pursuant thereto. In the event of any dispute over the meaning of a term in these conditions which is not defined in such statutes or regulations, such dispute shall be resolved by reference to the most relevant definitions contained in any other state or federal statute or regulation. Words or phrases used herein dealing with conditions of the South Florida Water Management District (SFWMD) shall be defined by reference to Chapter 373, Florida Statutes, or applicable rules of the SFWMD.

XI. REVIEW OF SITE CERTIFICATION

The certification shall be final unless revised, revoked or suspended pursuant to law. At least every five years from the date of issuance of certification the Department shall review all monitoring data that has been submitted to it during the preceding five-year period for the purpose of determining the extent of the Permittee's compliance with the conditions of this certification and the environmental impact of this facility. The Department shall submit the results of its review and recommendations to the Permittee. Such review will be repeated at least every five years thereafter.

XII. MODIFICATION OF CONDITIONS

Pursuant to Subsection 403.516(1), F.S., the Board hereby delegates the authority to the Secretary to modify any condition of this certification dealing with sampling, monitoring, reporting, specification of control equipment, related time schedules, emission limitations (subject to notice and opportunity for hearing), conservation easements, or any special studies conducted, as necessary to attain the objectives of Chapter 403, Florida Statutes. Requests for modifications shall not be unreasonably withheld by the Department.

All other modifications to these conditions shall be made in accordance with Section 403.516, Florida Statutes.

XIII. CONSTRUCTION

The facility shall be constructed, at a minimum, pursuant to the design standards presented in the application and the standards or plans and drawings submitted and signed by an engineer registered in the state of Florida. The Applicant shall present specific facility plans, as developed, for review by the Southwest District Office prior to construction pursuant to the portions of the plans then being submitted. Specific Southwest District Office approval of plans will be required based upon a determination of consistency with approved design concepts, regulations and these Conditions prior to initiating construction of the: leachate collection system; air pollution control equipment; stormwater runoff system; landfill closure plans and hazardous, toxic or pathological handling facilities or areas. Review and action by the Southwest District Office on said plans shall be accomplished in no longer than thirty (30) days from the date of a complete submittal of such plans and any action may be subject to review pursuant to Chapter 120, Florida Statutes.

A. Control Measures

1. Stormwater Runoff

To control runoff during construction which may reach and thereby pollute Waters of the State, necessary measures shall be utilized to settle, filter, treat or absorb silt-containing or pollutant-laden stormwater to ensure against spillage or discharge of excavated material that may cause turbidity in excess of 29 Nephelometric Turbidity Units above background in Waters of the State. Control measures may consist of sediment traps, barriers, berms, and vegetation plantings. Exposed or disturbed soil shall be protected and stabilized as soon as possible to minimize silt and sediment laden runoff. The pH of the runoff shall be kept

within the range of 6.0 to 8.5. The Permittee shall comply with Florida Administrative Code Chapters 17-25 and 40D-4. The Permittee shall complete the forms required by 17-25.09(1) and 40D-4 and submit those forms and the required information to the SWFWMD for any modifications that might occur.

2. Burning

Open burning in connection with land clearing shall be in accordance with Chapter 17-5, FAC, and Uniform Fire Code Section 33.101 Addendum. No additional permits shall be required, but prior to each act of burning, the Division of Forestry shall be contacted to determine if satisfactory conditions exist for burning. Open burning shall not occur if the Division of Forestry has issued a ban on burning due to fire hazard conditions.

3. Sanitary Wastes

Disposal of sanitary wastes from construction toilet facilities shall be in accordance with applicable regulations of the appropriate local health agency.

4. Solid Wastes

Solid wastes resulting from construction shall be disposed of in accordance with the applicable regulations of Chapter 17-7, FAC.

5. Noise

Construction noise shall not exceed either local noise ordinance specifications, or those noise standards imposed by zoning.

6. Dust and Odors

The Permittee shall employ proper odor and dust-control techniques to minimize odor and fugitive dust emissions. The applicant shall employ control techniques sufficient to prevent nuisance conditions on adjoining property.

7. Transmission Lines

The directly associated transmission lines from the Resource Recovery Facility electric generators to the existing Florida Power Corporation substation shall be cleared, maintained and prepared without the use of herbicides.

8. Protection of Vegetation

The Permittee shall develop the site so as to retain a buffer of trees or shall plant a buffer of trees sufficient to minimize the aesthetic and noise impacts of the facility. The buffer, as far as practicable, shall be of sufficient height and width suitable for the purpose of mitigating both construction and operational impacts of the facility.

9. Dewatering Operations

The dewatering operations during construction shall be carried out in such a manner that all water withdrawn will be retained onsite. There shall be no discharge of water offsite due to dewatering operations.

B. Environmental Control Program

An environmental control program shall be established under the supervision of a Florida registered professional engineer to assure that all construction activities conform to applicable environmental regulations and the applicable conditions of certification. If harmful effects or irreversible environmental damage not anticipated by the application or the evidence presented at the certification hearing are detected during construction, the Permittee shall notify the Southwest District Office as required by Condition II.

C. Reporting

1. Notice of commencement of construction shall be submitted to the Southwest District Office within 15 days of initiation. Starting three (3) months after construction commences, a quarterly construction status report shall be submitted to the Southeast District Office. The report shall be a short narrative describing the progress of construction.

2. Upon or immediately prior to completion of construction of the resource recovery facility or a phase thereof and upon or immediately prior to completion of all necessary preparation for the operation of each landfill cell, the Southwest District Office will be notified of a date on which a site or facility inspection should be performed in accordance with Condition V, and the inspection shall be performed within fourteen (14) days of the date of notification by Permittee.

XIV. OPERATION

A. Air

The operation of the Resource Recovery Facility shall be in accordance with all applicable provisions of Chapter 17-2, 17-5, and 17-7, Florida Administrative Code. In addition to the

foregoing, the Permittee shall comply with any and all applicable air emission standards for municipal waste incinerators adopted by the Department and the EPA under Sections 111 or 112 of the Clean Air Act, or its successor. The Permittee shall also comply with the following specific conditions of certification:

1. Emission Limitations upon Operation of Units 1-3

a. Stack emissions from each unit shall not exceed the following assuming a Btu content of 4800 Btu/lb of MSW:

- (1) Particulate matter: 0.015 grains per standard cubic foot dry gas corrected to 12% CO₂.
- (2) SO₂: 60 ppm_{dv} at 12% CO₂, 6-hour rolling average; or 70% reduction by weight of uncontrolled SO₂ emissions; not to exceed 100 ppm_{dv} corrected to 7% O₂.
- (3) Nitrogen Oxides: 0.643 lbs/MBtu heat input.
- (4) Carbon Monoxide: 100 ppm_{dv} corrected to 7% O₂, 8-hour rolling average.
- (5) Lead: 0.0007 lbs/MBtu heat input.
- (6) Mercury: 8.0 x E-4 lb/MBtu
- (7) Odor: there shall be no objectionable odor at or outside the site boundary.
- (8) Visible emissions: opacity shall be no greater than 15% 6-minute average except that visible emissions with no more than 20% opacity may be allowed for up to three consecutive minutes in any one hour except during start up, shut down or malfunction when the provisions of 17-2.250, FAC, shall apply. Opacity compliance shall be demonstrated in accordance with Florida Administrative Code Rule 17-2.700(6)(a)9, DER Method 9.
- (9) Fluoride: 0.0080 lb/MBtu heat input.
- (10) Arsenic: 9.1 x E-6 lb/MBtu heat input.
- (11) Beryllium: 1.35 x E-7 lb/MBtu heat input.
- (12) VOC: 0.021 lb/MBtu heat input.
- (13) Hydrogen Chloride: 0.127 lb/MBtu heat input.

b. The height of the boiler exhaust stack shall not be less than 275 feet above grade.

c. The resource recovery facility's boilers shall not be loaded in excess of either 115% of their rated nameplate capacity of 29,167 pounds of MSW or 115% of 140×10^6 Btu per hour each.

d. The incinerator boilers shall have a metal name plate affixed in a conspicuous place on the shell showing manufacturer, model number, type waste, and rated capacity.

e. Compliance with the limitations for particulates, sulfur oxides, nitrogen oxides, carbon monoxide, fluoride, VOC and lead shall be determined in accordance with Florida Administrative Code Rule 17-2.700, DER Methods 1, 2, 3, 4, and 6 and 40 CFR 60, Appendix A, Methods 5, 7, (modified with prefilter), 10, 12, 13A or 13B (or modified method 5 for fluorides), and 18 or other methods as approved by the DER. The stack test for each unit shall be performed at $\pm 10\%$ of the maximum heat input rate of 140×10^6 Btu heat input per hour or the maximum charging rate of 29,167 pounds of MSW per hour. Compliance with the beryllium emission limitation shall be determined in accordance with 40 CFR 61, Method 103 or 104, Appendix B. Compliance testing for mercury shall be determined in accordance with 40 CFR 61, Method 101A, Appendix B. Particulate testing shall include one run during representative soot blowing which shall be averaged proportionally to normal daily operations. Visible emission testing shall be conducted simultaneously with soot blowing and non-soot blowing runs. Compliance with the opacity limit shall be demonstrated in accordance with Florida Administrative Code Rule 17-2.700(6)(a)9., DER Method 9. Compliance with SO_2 emissions when firing supplemental oil may be determined by submission of a chemical analysis of the oil as fired.

f. Combustion efficiency shall be calculated by:
 $\%CE = (1/(1+(\text{CO}/\text{CO}_2))) \times 100$, and shall be at least 99.5% for an 8 hour average.

2. Emission Control Equipment

a. The boiler particulate control system shall be designed constructed and operated to achieve a maximum emission rate of 0.015 grains per dscf corrected to 12% CO₂. All other particulate control devices shall be designed to meet the provisions of Section 17-2.610, FAC.

b. The facility shall be equipped with dry scrubbers which are designed, constructed and operated to remove SO₂ at an efficiency of 70% by weight or to achieve an emission rate of 100 ppm_{dv} at 7% O₂ which ever is less stringent and to cool the flue gases to an average temperature not to exceed 300⁰F (3-hour rolling average).

c. The Permittee must submit to the Department within thirty (30) days after it becomes available, copies of technical data pertaining to the selected emissions control systems. These data should include, but not be limited to, guaranteed efficiency and emission rates, and major design parameters. The data shall be processed and approved or denied in accordance with Condition XIII above.

3. Air Monitoring Program

a. The Permittee shall install and operate continuously monitoring devices to measure combustion temperature and flue gas temperature at the exit of the acid gas control equipment plus SO₂, CO, and CO₂ levels and opacity for each unit. The monitoring devices shall meet the applicable requirements of Chapter 17-2, Section 17-2.710, FAC, and 40 CFR 60.45, and 40 CFR 60.13, including certification of each device in accordance with 40 CFR 60, Appendix B, Performance Specifications and 40 CFR 60.7 (a)(5). Re-certification shall be conducted annually from initial certification. Data on monitoring equipment specifications, manufacturer, type, calibration and maintenance needs, and its proposed location after the economizer or in the air pollution control equipment outlet duct shall be provided to the Southwest District Office for approval prior to installation together with and subject to the same provisions as submittal of air pollution

control equipment pursuant to Paragraph XIII hereof.

b. The Permittee shall provide sampling ports in the air pollution control equipment outlet duct or stack and shall provide access to the sampling ports in accordance with Section 17-2.700, FAC. Drawings of testing facilities including sampling port locations as required by Section 17-2.700 shall be submitted to the Department for approval at least 60 days prior to construction of the sampling ports and stack.

c. The Permittee shall have a sampling test of the emissions performed by a commercial testing firm within 60 days after achieving the maximum rate at which the boilers will be operated but not later than 180 days of the start of operation of the boilers and annually for particulate and NO_x from the date of testing thereafter. Thirty (30) days prior notice of the initial sampling test shall be provided to the Southwest District Office and fifteen (15) days notice before subsequent annual testing. The notification requirements of 40 CFR parts 60 and 61 will also be observed.

4. Reporting

a. Two copies of the results of the emissions tests for the pollutants listed in XIV.A.1.a. shall be submitted within forty-five days of the last sampling run to the Southwest District Office.

b. Emissions monitoring shall be reported to the Southwest District Office on a quarterly basis in accordance with Section 17-2.710, FAC, 40 CFR, Part 60, Subsection 60.7 or 40 CFR Part 61 as appropriate..

c. Notice of anticipated and actual start-up dates of each incinerator boiler shall be submitted to the DER Southwest District Office.

5. Unconfined Emissions

Proper dust control techniques such as water sprays or chemical wetting agents or other containment method shall be used to control visible unconfined (fugitive) emissions to the outside air no more than 10% opacity as determined by DER Method 9 for

unconfined resource recovery facility processes. Proper techniques shall also be used to control such emissions to prevent them from crossing the property line(s) from any other unconfined sources and to limit them to no more than three (3) minutes (cumulative) in any fifteen (15) minute period as determined by 40 C.F.R. 60, Appendix A, Method 22 with observations being made along the property line. Visible emissions shall not include uncombined water vapor or emissions from engine exhausts.

B. Fuel

The Resource Recovery Facility shall utilize refuse such as garbage and trash (as defined in Chapter 17-7, FAC) as its fuel. Use of alternate fuels except for distillate fuel oil or natural gas in start-up burners would necessitate modification of these Conditions of Certification. Refuse as fuel shall not include "hazardous waste" as defined in Chapter 17-30, FAC. The alternate fuel, which may be used distillate oil, shall not contain more than 0.3% sulfur by weight and shall not be used more than required during boiler startup or shutdown.

C. Wastewater Disposal

A complete submittal of plans, drawings and specifications for leachate collection systems, pumps, lift stations, sewage collection systems, and wastewater collection systems in accordance with appropriate DER rules shall be furnished to the Southwest District Office for approval at least 60 days prior to start of construction for the particular of such component. In order to obtain approval, the receiving sewage treatment plant shall indicate its ability and willingness to accept the wastewater. Also plans and specifications for connections to off-site sewage and wastewater transmission systems shall be furnished to the Southwest District Office for approval 60 days prior to start of construction. Review shall be accomplished in accordance with Condition XIII.

D. Water Discharges

1. Surface Water

a. Any discharges from the site stormwater system via the emergency overflow structure which result from an event LESS than a ten-year, 24-hour storm (as defined by the U.S. Weather Bureau Technical Paper No. 40, or the DOT drainage manual, or similar documents) shall meet applicable State Water Quality Standards, Chapter 17-3, FAC, the Standards of Chapter 17-25, FAC, and Chapter 40 D, FAC.

2. Groundwaters

a. All discharges to groundwaters, such as landfill leachate, shall be collected and treated as necessary, or otherwise be of high enough quality, to be able to meet the applicable Water Quality Standards of Sections 17-3.402 and 17-3.404, FAC, at the boundary of the site. If monitoring should indicate a violation of the standards, the Permittee shall immediately notify the Southwest district Office and SWFWMD and institute remedial action.

3. Groundwater Monitoring Program

a. Sampling of the shallow aquifer groundwater quality shall be conducted in at least six well clusters in the site vicinity. At least one of these wells shall be up the hydrologic slope from the landfill area to provide current background data. Other wells shall be located down the hydrologic slope from the landfill areas. Specific location of any new wells or modifications to the monitoring program may be proposed by the applicant, but must be approved by the Department prior to the construction of the new monitoring wells.

b. Upon completion of construction of the Ground water monitoring system, the following information shall be submitted to the Southwest District Office for all ground water monitoring wells and any new well(s) constructed:

Well identification	Drillers log
Latitude/Longitude	Total depth of well
Aqifer monitored	Casing diameter
Screen type and slot size	Casing type and length
Screen length	SWFWMD well construction
Elevation at top of pipe	permit numbers
Elevation at land surface	

c. Upon completion of construction of the ground water monitoring system, but not less than 12 months before the disposal of MSW or ash, the Permittee shall sample all ground water monitoring wells for the Primary and Secondary Drinking Water parameters includes in Chapter 17-22, FAC, Public Drinking Water Systems. The specific parameters to be sampled are listed in Part II, Quality Standards, Analytical Methods, Sampling, Sections 17-22.210 and 17-22.220, FAC.

d. The field testing, sample collection and preservation and laboratory testing, including quality control procedures, shall be in accordance with Chapter 17-4.246 and 17-3.401, FAC. Approved methods as published by the Department or as published in Standard Methods, A.S.T.M. or EPA methods shall be used. Approved methods for chemical analyses are summarized in the Federal Register, December 1, 1976 (41FR52780) except that turbidity shall be measured by the Nephelometric Method.

e. All required submittals shall be sent to the DER Southwest Office within 60 days of installation of the ground water monitoring system. Upon receipt and review of the required data, quarterly sampling reports shall be submitted to the Southwest District Office commencing 12 months prior to disposal of any wastes in the ashfill/landfill. Any required modifications of the ground water monitoring system or program shall be modified in accordance with the provisions of Condition XIII. The ground water monitoring program may be reviewed annually.

E. Solid/Hazardous Waste

1. Operation of the associated landfill shall be done in accordance with all applicable portions of Chapter 17-7, FAC, including prohibitions, procedures for closing of the landfill, and final cover requirements, or, as provided in this condition (XIV.E.) in its entirety. The plans of the final landfill design shall be provided to the Department for review and approval at least 90 days prior to start of operation. Review shall be performed in accordance with Condition XIII. The final plans for this Facility shall include provisions for the isolated temporary handling of suspected hazardous, toxic or infectious wastes.

2. No suspected or known hazardous, toxic, or infectious wastes as defined by Federal, State or local statutes, rules, regulations or ordinances shall be burned or landfilled at the site.

3. Rodent and insect control shall be provided as necessary to protect the health and safety of site employees and the public. Pesticides used to control rodents, flies, and other vectors shall be as specified by the Florida Department of Agriculture and Consumer Services.

4. Storage of putrescible waste for processing shall not exceed storage capacity of the refuse bunker or tipping floor as designed on the approved plan.

5. Ash prior to transport to the landfill shall be stored in an enclosed building on an impervious surface. Final disposal of the ash shall be into the lined landfill or other method approved by the Southwest District Office. Any leachate generated within the building shall be collected and disposed of by a method approved by the Southwest District Office. The Southwest District Office shall notify the SWFWMD of the plans and specifications regarding the above referenced method.

6. A monthly report shall be prepared detailing the amount and type (putrescible, special wastes, boiler residue, etc.) of materials landfilled at the site, and the treatment provided (see condition XIV.E.2. above). These reports shall be furnished to the Southwest District Office quarterly, commencing 120 days after the Resource Recovery Facility becomes operational and is producing residues.

7. Unless approved by the Department with subsequent modification of conditions, this facility shall not accept materials defined by applicable Federal, State or local statutes, rules, regulations or ordinances as "Hazardous Wastes".

8. All cells will be constructed to promote leachate drainage to a low end of the cell; all leachate collected at the low end of active or inactive cells shall be pumped or transported to the leachate collection system for transmission to a permitted treatment system. Leachate collected above the primary liner shall be monitored quarterly for conductivity, pH, copper, arsenic, zinc, phenols, oil and grease and total organic halogens. Results of such monitoring shall be reported to the operator of the receiving municipal sewage treatment plant and the Southwest District Office. Leachate collected between the primary and secondary liners shall be monitored quarterly for conductivity, chlorides, ammonia, iron, sulfur, nitrates, and zinc. Results will be reported to the Southwest District Office quarterly. The monitoring parameters set forth herein may be modified dependent upon the type of liners utilized and the manufacturer's recommendations to protect the integrity of the liners due to the classes of chemical constituents in the leachate which will be in contact with the liner(s). The Permittee shall provide the Southwest District Office with a certified letter from the liner manufacturer stating what classes of chemical constituents could damage the liners' integrity and include those parameters as part of the quarterly monitoring program noted above.

9. An EP toxicity analysis of the ash residue or other analysis as approved by the DER for ash being landfilled shall be conducted within thirty days after commencement of commercial operation and annually thereafter for the chemicals listed and using the prescribed method as set forth in 40 CFR s261, Appendix II. In addition, said ash residue shall be tested for zinc and dioxin (2, 3, 7, 8 - TCDD) content.

10. Results from said residue analysis shall be sent to the Southwest District Office within 30 days of receipt. Results of these analyses may also be used for correlation with groundwater monitoring information and in any subsequent modification of conditions.

11. If residue materials are determined to be a "Hazardous Waste", then measures shall be taken to treat or dispose of the residues pursuant to rule promulgated by Federal, State or Local authorities, as may be applicable.

12. If the nature of materials received at the facility becomes altered, either due to modification of conditions, i.e., the facility is allowed to incinerate already known hazardous wastes such as pesticides, or if groundwater monitoring reveals abnormal groundwater conditions which may be attributable to the landfilling of this residue, then a subsequent analysis may be required at that time.

13. There shall be no discharge to waters of the State of polychlorinated biphenyl compounds.

14. The Permittee shall provide the Southwest District Office with a set of full-sized engineering plans signed and sealed by an engineer registered in the State of Florida for the operational and closure phases of the landfill for review and approval at least 90 days prior to implementation of those phases. Within 90 days after completion on the closure phase of the

project, the Permittee shall submit certified as-built plans signed and sealed by a Florida Registered Professional Engineer.

15. To ensure that the bottom liners are continuous throughout the cell, the liners will be installed either by the manufacturer or by a competent experienced lining contractor according to the manufacturer's specifications. In addition, as part of quality control measures, field seams between in-place liner and newly installed liner will be tested according to ASTM specifications to ensure integrity between materials and certified in writing by the liner manufacturer, contractor, and engineer of record to the Southwest District Office. Top liners, if required, shall be installed in accordance with closure requirements of the Southwest District Office and SWFWMD.

16. An adequate quality control plan shall be submitted to the Southwest District Office 30 days prior to liner installation/construction. The quality control plan shall include installation/construction personnel, all specifications and construction methods, liner testing procedures, and sampling frequency. The liner material proposed for use shall be completely described. Laying of the liner shall comply with the specified standards as fully described in the Quality Control Plan. An acceptable method of testing for pinholes and defective areas shall be completely described. Sampling and testing shall be conducted in the field during construction and after completion by qualified personnel under the direction of a professional engineer in charge to assure the liner will meet performance standards.

17. At least 30 days prior to liner installation, the Permittee shall submit to the Southwest District Office a construction schedule or chart to include the following:

- a. Beginning of liner installation,
- b. Completion of liner installation,
- c. Beginning of leachate collection system/removal system collection,

d. Completion of leachate collection/removal system construction.

18. After all significant initial construction of each new system, section, or phase of the landfill has been completed and prior to the operation or acceptance of any solid waste, the engineer or the authorized public officer shall complete a Certification of Construction Completion, DER Form 17-7.130(2).

19. The design, operation, and monitoring of disposal or control of any "special wastes" shall be in accordance with F.A.C. Section 17-7.060, and any other applicable department rules, to protect the public safety, health and welfare. "Special wastes" means those wastes that require extraordinary management. They include but are not limited to abandoned automobiles, white goods, used tires, waste oil, sludges, dead animals, agricultural and industrial wastes, septic tank pumpings, and infectious and hazardous wastes. Sludges which may be hazardous due to their chemical composition should be disposed of in accordance with F.A.C. Section 17-7.040(4). Disposal of Grade III Domestic Wastewater Treatment Sludge, disposal of domestic septage, and disposal of food service sludge, shall be in accordance with F.A.C. Section 17-7.540(6).

F. Operational Safeguards

The overall design and layout of the facilities shall be such as to mitigate potential adverse effects to humans and the environment. Security control measures shall be utilized to prevent exposure of the public to hazardous conditions. The Federal Occupational Safety and Health Standards will be complied with during construction and operation. The safety standards specified under Section 440.56, Florida Statutes, by the Industrial Safety Section of the Florida Department of Commerce will be complied with during operation.

G. Transmission Lines

The directly associated transmission lines from the Resource Recovery Facility electric generators to the Florida Power and Light Company Substation shall be kept cleared without the use of herbicides.

H. Noise

Operational noises shall not exceed local noise ordinance limitations nor those noise standards imposed by zoning.

XV. SWFWMD - SURFACE WATER PERMITTING

A. Land Development

Except as authorized by this certification, any further land development, wetlands disturbance or other construction within the total land area of this site will require additional approval in accordance with Chapters 40D-4 and 17-25, F.A.C.

B. Stormwater Control

The applicant shall assure that erosion and sediment control measures required by Rule 17-25.025(7) shall be effectively implemented continuously from beginning of project construction until completion. Project detention/retention ponds and discharge control structures which are to be constructed as part of the project should be initially built and maintained continuously during project construction to avoid adverse impact to receiving waters or off site.

C. Well Plugging

Any existing wells in the path of construction shall be properly plugged and abandoned by a licensed water well contractor in accordance with Chapter 40D-3 and Rule 17-21.10(4), F.A.C.

D. Pond Slopes

All retention/detention pond side slopes, shall be sodded, and staked as necessary, to prevent erosion.

E. Liability

By issuance of this certification, the District, its employees and representatives assume no responsibility and/or liability in regard to either the design, construction or performance of the proposed facilities.

F. Plan Review

Prior to initiating construction, the final resource recovery

site plan is required to be submitted to the District for review of compliance with the conditions set forth in this recommendation and in accordance with Chapters 40D-4 and 17-25, F.A.C.

XVI SWFWMD - CONSUMPTIVE USE PERMITTING

A. Accuracy of Information

The facility operator attests that all statements made for this certification are true and accurate and based upon the best information available, and that all conditions set forth in this authorization will be complied with. If any of the statements and or supporting data are found to be untrue and inaccurate, or if the facility operator fails to comply with all of the conditions set forth herein, then certification for the facility may be revoked following notice and hearing.

B. Reasonable Use

Certification is predicated upon assertion by the applicant that the use of water applied for and granted is and continues to be reasonable and beneficial use as defined in Section 373.019(5), Florida Statutes (F.S.), is and continues to be consistent with the public interest, and will not interfere with any legal use of water existing on the date of certification is granted.

C. Reservations

In granting certification, the District has, by regulation, reserved from use by applicant, water in such locations and quantities, for such seasons of the year, as it determines may be required for the protection of fish and wildlife and public health and safety. Such reservations are subject to periodic review and revision in light of changed conditions.

D. Withdrawal Limits

Certification is for a combined average annual withdrawal of

720,000 gallons of water per day with a maximum combined withdrawal rate not to exceed 1,150,000 gallons during a single day. Withdrawals are shown in the table below.

USER ID	1	2
DISTRICT ID	1	2
WITHDRAWAL POINT		
LATITUDE	282157	282157
LONGITUDE	823430	823429
GPD AVERAGE	677,000	43,000
GPD MAXIMUM	1,010,000	60,000

E. Water Shortage

In the event the District declares that a water shortage exists pursuant to Rule 40D-2.511, Florida Administrative Code (F.A.C.), the District may alter, modify or declare inactive all or parts of this authorization for water use.

F. Sampling

The District reserves the right, at any reasonable time, to collect water samples from any withdrawal for this facility. The District may require the facility operator to submit samples in mailable containers provided by the District.

G. Access

An authorized District representative may, at any reasonable time, enter the property, inspect the facility, and make environmental or hydrologic assessments. The facility operator shall either accompany District staff onto the property or make provision for access onto the property.

H. Reconsideration

If the District, after consultation with the facility operator determines that significant water quantity or quality changes, or adverse environmental impacts are occurring, the

District, upon notice and hearing, may reconsider the allowed withdrawal quantities.

I. Minimum Water Levels

The District may, at a future date, establish minimum water levels in aquifers and lakes, and minimum flow in streams, which may require the facility operator to limit withdrawal from these sources when water levels or flows fall below the established minimums.

J. Conservation

Water conservation shall be practiced by the facility operator to increase the efficiency of transport, application and use, to decrease waste and to minimize runoff from the property. At such time as the District adopts specific conservation criteria for the facility's water use classification, the facility operator will be subject to such criteria upon notice and after a reasonable period for compliance.

K. Flow Measurement

The following points, District Withdrawal No(s). 1, 2 and supply from the regional waste water treatment plant, shall be equipped with totalizing flow meters or other flow measuring devices as approved in writing by the Director, Resource Regulation Department. Such devices shall have and maintain an accuracy within five percent (5%) of the actual flow. Those designated withdrawal points not equipped with such devices on the date the consumptive use is authorized shall be so equipped within one hundred twenty (120) days of the authorization date or upon completion of construction of the withdrawal facility, unless an extension is approved in writing by District staff.

L. Reporting

Total flow from each metered source shall be recorded on a monthly basis and reported to the District on District forms on or before the tenth (10th) day of the following month.

Reports shall be addressed to:

Permits Data Collection
Processing and Records Section
Southwest Florida Water Management District
2379 Broad Street
Brooksville, Florida 34609-6899

M. Water Quality Sampling

Water quality samples shall be collected and analyzed as indicated in the table below. Reports of the analyses shall be submitted to the District (on District forms) on or before the tenth (10th) day of the following month. The parameters and frequency of sampling and analysis may be modified by District staff as necessary to ensure the protection of the resource.

<u>District W/D No(s)</u>	<u>Parameters</u>	<u>Sampling Frequency</u>
1 and 2	Chloride	Monthly
1 and 2	Sulfate	Monthly
1 and 2	Total Dissolved Solids	Monthly

Analyses shall be performed according to procedures outlined in the current edition of Standard Methods for the Examination of Water and Wastewater by the American Public Health Association-American Water Works Association-Water Pollution Control Federation or Methods for Chemical Analyses of Water and Wastes by the United States Environmental Protection Agency.

Reports shall be addressed to:

Permits Data Collection
Processing and Records Section
Southwest Florida Water Management District
2379 Broad Street
Brooksville, Florida 34609-6899

XVII. SWFWMD - ASHFILL/LANDFILL

A. Preoperational Limitation

As far as practical, disposal of unprocessed solid waste at the ashfill/landfill site should be minimized before the resource recovery facility is operational. The disposal of unprocessed waste at the ashfill/landfill site shall be prohibited until the East Pasco County Sanitary Landfill site is filled to the maximum capacity permitted by the Florida Department of Environmental Regulation, subject to the use limitations contained in the East Pasco County Sanitary Landfill site lease or until the resource recovery facility is operational, whichever occurs first.

B. Unprocessed Waste Limitation

The disposal of by-passed unprocessed waste at the ashfill/landfill site shall be minimized when the resource recovery facility is not fully operational or when the capacity of the facility is exceeded, in accordance with the County's plans for operation contained in the application. It is further recommended that the county initiate future construction of additional capacity of the resource recovery facility as early as possible in order to avoid having the amount of incoming processible waste exceed the capacity of the facility and to avoid disposal of unprocessed waste in the ashfill/landfill

C. Waste Segregation

In so far as practical, ash residue from the resource recovery facility shall be segregated from unprocessed waste in ashfill/landfill cells in order to insure that the ash remains in an alkaline state.

D. Leachate Monitoring

The secondary underdrain system shall be monitored weekly for the presence of leachate which would indicate leakage from the primary liner. A contingency plan will be developed for actions

to be taken in event that the failure of a liner or underdrain is detected. The contingency plan shall include:

1. Methods for determining which cell is leaking,
2. Plans for immediate expansion of the monitor well network downgradient of the problematic cell for early detection of leachate in the aquifer if the secondary liner fails,
3. Plans for repair of a leaking liner, and
4. Plans for restoration of the aquifer if aquifer contamination occurs.

E. Appliances and Machines

The County, to the extent practicable, should collect and segregate appliances and machines containing or utilizing coolants, greases or oils for recycling by a metals processor in order to minimize their disposal in the ashfill/landfill.

XVIII. OPERATIONAL CONTINGENCY PLANS

A. Operating Procedures

The Permittee shall develop and furnish the Southwest District Office a copy of written operating instructions for all aspects of the operation which are critical to keeping the facility working properly. The instructions shall also include procedures for the handling of suspected hazardous, toxic and infectious wastes.

B. Contingency Plans

The Permittee shall develop and furnish the Southwest District Office written contingency plans for the continued operation of the system in event of breakdown. Stoppages which compromise the integrity of the operations must have appropriate contingency plans. Such contingency plans should identify critical spare parts to be readily available.

C. Current Engineering Plans

The Permittee shall maintain a complete current set of modified engineering plans, equipment data books, catalogs and documents in order to facilitate the smooth acquisition or fabrication of spare parts or mechanical modifications.

D. Application Modifications

The permittee shall furnish appropriate modifications to drawings and plot plans submitted as part of the application, including operational procedures for isolation and containment of hazardous wastes.

XIX. TRANSFER AND/OR ASSIGNMENT

If contractual rights, duties or obligations are transferred under this certification, notice of such transfer or assignment shall immediately be submitted to the Department and SWFWMD by the previous certification holder (Permittee) and the Assignee. Included within the notice shall be the identification of the entity responsible for compliance with the certification. Any assignment or transfer shall carry with it full responsibility for the limitations and conditions of this certification.

XX. PROPRIETARY DOCUMENTS OR INFORMATION - CONFIDENTIALITY

Proprietary or confidential data, documents or information submitted or disclosed to any agency shall be identified as such by the Permittee and shall be maintained as such pursuant to applicable Florida law.

XXI GOPHER TORTOISE MANAGEMENT PLAN

A. The Permittee shall identify the proposed gopher tortoise preserve, to be located in the 170-acre southwest portion of the site, on the site master plan. The Permittee shall develop a management plan as approved by the Florida Game and Fresh Water Fish Commission staff, that will adequately ensure the maintenance and enhancement of the gopher tortoises and their commensals on this preserve area.

B. The approximately 45-acre of remnant sandhill community, located in the northeast corner of the project site, should be utilized for borrow only when other potential on-site areas have been exhausted. Should adequate borrow material be obtained elsewhere this remnant sandhill community should be incorporated into the management plan for the gopher tortoises, or incorporated into the buffer area.

XXII. COOLING TOWER

A. The Pasco County Resource Recovery Facility may utilize reclaimed water or stormwater runoff as a source of cooling water. If the Permittee is forced to use ground water for cooling due to non-availability of reclaimed water, such use shall be in accordance with Condition XVI.

B. Prior to use in the cooling tower, reclaimed water shall be disinfected by use of chlorine or other suitable biocide to achieve a 1.0 mg/l concentration of total chlorine residual after a 15 minute contact time.