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Resource Recovery and Management  
Part I: Solid Waste Facilities,  
Chapter 17-7, F.A.C.  
Department of Pollution Control  
Effective ~11/16/1976

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## RULES

## OF THE

## DEPARTMENT OF POLLUTION CONTROL

## CHAPTER 17-7

RESOURCE RECOVERY AND MANAGEMENT  
PART I: SOLID WASTE FACILITIES

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## 17-7.01 Declaration and Intent

The Florida Department of Pollution Control finds and declares that improper disposal of solid waste on or in the land and use of dumps as a means of final disposal results in or contributes to air pollution, water pollution, and land blight. The Department further finds that regulation of land disposal of solid waste will reduce air pollution, water pollution and the use of the land as an uncontrolled receptacle for improperly treated waste. The Department further finds that properly designed, operated and monitored disposal of solid waste on or in the land enhances the environment.

It is the intent of the Department to require that solid waste disposal be conducted in a manner and under conditions that will eliminate the dangerous and deleterious effects of improper solid waste disposal upon air quality, water quality, soils and human health.

The Department shall plan for and regulate the storage, collection, transport, generation, processing, recycling and disposal of solid waste in order to protect the public safety, health and welfare, to enhance the environment for the people of the state, and to recover resources which have the potential for further use, and to assure that the final irreducible residue disposed on or in the land enhances the environment.

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In thin layers, compacting the solid wastes to the smallest practical volume, and applying cover material once each working day.

(7) "Dump" is a land disposal site at which solid waste is disposed of in a manner which does not protect the environment and is exposed to the elements, vectors and scavengers.

(8) "Ground Water" is subsurface water in the zone of saturation of the earth's crust. The top of this zone of saturation is commonly defined as the water table.

(9) "Hazardous Wastes" are materials or combinations of materials which require special management techniques because of their acute and/or chronic effects on air and water quality; on fish, wildlife, or other biota; and on the health and welfare of the public. These materials include, but are not limited to, volatile, chemical, biological, explosive, flammable, radioactive and toxic materials.

(10) "Abandoned Vehicle" is a passenger automobile, trucks, trailers, farm equipment, etc., that have no remaining useful life and are left unattended on public or private property.

(11) "White Goods" are inoperative and discarded refrigerators, ranges, washers, water heaters and other similar domestic and commercial appliances.

(12) "Volume Reduction Plant" includes, but is not limited to, incinerators, pulverizers, compactors, shredding and baling plants, transfer stations, composting plants and other plants which accept and process solid waste for recycling or disposal.

(13) "Cell" is a volume of solid waste compacted on an inclined plane and enclosed by a layer of earth.

(14) "Lift" is a completed horizontal series of cells.

(15) "Daily Cover" is a six (6) inch layer of compacted earth used to enclose a cell once each working day.

(16) "Intermediate Cover" is a layer of compacted earth one foot in depth applied to a partially completed landfill where final cover is not to be applied within one year of cell completion.

(17) "Final Cover" is a layer of compacted earth two feet in depth applied to a completed landfill the top six (6) inches of which is loosely compacted to promote plant growth.

(18) "Leachate" is a liquid that has percolated through solid waste and contains dissolved or suspended materials that may contaminate surface or underground waters used as sources of food, water supplies, recreation, etc.

(19) "Working Face" is that portion of a sanitary landfill where waste is discharged, spread and compacted prior to placement of daily cover.

(20) "Monitoring Wells" are strategically located shallow and deep wells from which water samples are drawn for analysis of possible contaminants and from which direction of ground water flow is determined.

(21) "Infectious Wastes" are those wastes resulting from the operation of medical clinics, hospitals, abattoirs, and other facilities producing waste which may consist of, but are not limited to, human and animal parts, contaminated bandages, pathological specimens, hypodermic needles, contaminated clothing, and surgical gloves.

(22) "Putrescible Wastes" are materials capable of decomposition, causing environmental nuisances and/or obnoxious odors.

(23) "Milled Refuse" is refuse that has been mechanically ground, shredded or pulverized.

(24) "Yard Trash" is vegetative matter resulting from landscaping maintenance such as tree and shrub trimmings, grass clippings and palm fronds.

(25) "Composting" means a controlled process of degrading organic matter by micro-organisms resulting in a humus material which is useful as a soil conditioner.

(26) "Composting Facility" means a facility where organic matter is processed by natural or mechanical means to aid the microbial decomposition of the organic matter. Processing may include simply exposure resulting in natural decay or physically turning, windrowing, aerating or other mechanical reduction of the organic matter.

Specific Authority: 403.001, 403.002, 403.003, 403.004, 403.005, 403.006, 403.007, 403.008, 403.009, 403.010, 403.011, 403.012, 403.013, 403.014, 403.015, 403.016, 403.017, 403.018, 403.019, 403.020, 403.021, 403.022, 403.023, 403.024, 403.025, 403.026, 403.027, 403.028, 403.029, 403.030, 403.031, 403.032, 403.033, 403.034, 403.035, 403.036, 403.037, 403.038, 403.039, 403.040, 403.041, 403.042, 403.043, 403.044, 403.045, 403.046, 403.047, 403.048, 403.049, 403.050, 403.051, 403.052, 403.053, 403.054, 403.055, 403.056, 403.057, 403.058, 403.059, 403.060, 403.061, 403.062, 403.063, 403.064, 403.065, 403.066, 403.067, 403.068, 403.069, 403.070, 403.071, 403.072, 403.073, 403.074, 403.075, 403.076, 403.077, 403.078, 403.079, 403.080, 403.081, 403.082, 403.083, 403.084, 403.085, 403.086, 403.087, 403.088, 403.089, 403.090, 403.091, 403.092, 403.093, 403.094, 403.095, 403.096, 403.097, 403.098, 403.099, 403.100, 403.101, 403.102, 403.103, 403.104, 403.105, 403.106, 403.107, 403.108, 403.109, 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The Department may consider minimized requirements for those counties, municipalities and small communities having a very small population of a principally rural nature if the Department determines that no significant threat to environmental quality or public health will result.

(7) Permit. —

(a) After January 1, 1975, no resource recovery and management facility or site shall be operated, maintained, constructed, expanded, or modified without an appropriate and currently valid permit issued by the Department as defined in Chapter 17-4 F.A.C. Provided that no public health or any condition adversely affecting the public health is created and provided that the activity does not violate other state or local laws, ordinances, rules, regulations or orders, no permit under this section shall be required for the following activities:

1. Persons who dispose of solid waste resulting from their own activities on their own property;

2. Normal farming operations;

(b) Existing resource recovery and management facilities which meet the criteria of this rule may be issued an operation permit upon application and approval by the Department.

(c) Temporary operating permits may be issued to existing resource recovery and management facilities upon submission of a compliance schedule to correct deficiencies. An operation permit shall be issued by the Department when the facility meets all criteria.

Failure to correct deficiencies within the compliance schedule will result in formal enforcement proceedings.

(d) All persons operating existing facilities on the effective date of this rule shall take necessary corrective actions as expeditiously as possible so as to be in full compliance with these regulations no later than July 1, 1977.

(9) Garbage feeding of hogs or other animals. Feeding of garbage to hogs without first adequately cooking said material in a manner prescribed by the Department of Agriculture and Consumer Services in accordance with provision of Chapter 585.50 F.S. is prohibited. A feeding permit shall be obtained from the Department of Agriculture and Consumer Services, and approval granted by the Department of Pollution Control before such feeding commences. After cooking, the garbage shall be fed to hogs on impervious feeding platforms. Platforms and surrounding areas shall be maintained in such a manner as to prevent environmental nuisances.

(10) No solid waste shall be disposed of except by sanitary landfill, incineration, recycling process or other method approved by the Department and consistent with applicable approved county or municipal programs.

(2) Unless otherwise approved by the Department and/or based on installation of approved control measures, no solid waste shall be disposed of by being placed:

(a) in or within 200 feet of any natural or

municipal boundaries shall not be impeded provided such transport and disposal is in accordance with the provisions of this rule; does not degrade the environment, cause a health hazard or create a physical or aesthetic nuisance.

(6) The construction of buildings, sewage, or gas or water supply mains, parking lots, or paved areas on or through completed portions of sites filled with solid waste is prohibited unless specifically approved by the Department.

(7) These prohibitions do not apply to those persons exempted by 403.70(1) F.S. Specific Authority 403.061 F.S. Law Implemented 403.021, 403.031, 403.061, 403.087, 403.701 through 403.713 F.S. History—Transferred from 10B-12.08, 10B-13.01, 10B-13.02.

### 17-7.05 Sanitary Landfill Criteria

#### 17-7.05.01 Location Requirements

##### (a) Soil Survey

Solid waste shall be disposed of only in areas where an adequate soil survey by a qualified U.S.D.A. Soil Conservation Service or other Soil Scientist has been made using the U.S.D.A. Soil Conservation Service taxonomy. The degree of limitation of the soils found shall be stated in accordance with the U.S.D.A. Soil Conservation Service Guide for Interpreting Engineering Uses of Soils. Such requirement may be waived by the Department only after being advised in writing by the Soil Scientist that the soils are such that a determination of soil series is not possible.

##### (b) Hydrological Survey

Solid waste shall be disposed of only in areas where an adequate hydrological survey has been made. Where this is not feasible the best available information from Water Management District, U.S. Geological Survey, Florida Bureau of Geology or other acceptable sources shall be required.

##### (c) Site Requirements

The land disposal site location shall:

1. be easily accessible by collection vehicles, automobiles and where applicable, transfer vehicles;
2. safeguard against water pollution originating from the disposal of solid waste;
3. have an adequate quantity of acceptable earth cover available. The cover material should be easily workable, compactable, and should not contain organic matter conducive to the harborage and/or breeding of vectors;
4. conform with the proper zoning.

##### (3) Operation Plans — The proposed operational plans shall include:

(a) Map or aerial photograph of the area showing land use and zoning within 1/4 mile of the solid waste disposal site. This photograph shall be of sufficient scale to show all homes, industrial buildings, wells, watercourses, dry runs, rock outcroppings, roads and other significant details.

(b) Plot plan of the site showing dimensions, location of soil borings, proposed trenching plan and original elevation, cover stock piles, and fencing. Cross sections shall be included on the plot plan or on separate sheets showing both the original and proposed fill elevations. The scale of the plot plan should not be greater than 200 feet to the inch.

(c) The design of the sanitary landfill shall include one or more topographic maps at a scale of not over 200 feet to the inch with 5-foot contour intervals. These maps shall show: the proposed fill

area; any borrow area; access roads; grades required for proper drainage of each lift and typical cross section of a lift; special drainage devices if necessary; fencing; equipment facilities; and all other pertinent information.

(d) A report shall accompany the plans indicating:

1. population and area to be served by the proposed site;
2. anticipated type, annual quantity and source of solid waste, expressed in cubic yards of compacted materials;
3. anticipated life of the site;
4. geological formations and groundwater elevations to a depth of at least 10 feet below proposed excavations and lowest elevation of the site. Such data shall be obtained by soil borings or other appropriate means;
5. soil map, interpretive guide sheets, and a report giving the suitability of the site for such an operation;
6. source and characteristics of cover material;
7. type and amount of equipment to be provided at the site for excavating, earth moving, spreading, compaction and other needs;
8. persons responsible for actual operation and maintenance of the site and intended operating procedures;
- (e) Operational design features. The disposal site shall be provided with operation features and appliances necessary to maintain a clean and orderly operation. These minimum features are:

1. operational plans to direct and control the use of the site;
2. the site shall be surrounded by a fence or other suitable barrier;
3. an all-weather access road to the site. A special area with a stabilized roadway shall be provided within the site for wet weather operations.
4. signs indicating name of operating authority, traffic flow, hours of operation, and charges for disposal (if any);
5. scales for weighing solid waste received at the landfill; or, in lieu thereof, estimates of the number of cubic yards received. Quantitative records shall be forwarded to the Department upon request;
6. suitable dust control methods such as approved chemicals, oils, or water sprays;
7. litter control devices, portable fences, or other suitable means;
8. fire protection and fire fighting facilities adequate to insure the safety of employees and provisions to deal with accidental burning of solid waste within the sanitary landfill.

9. emergency first aid equipment to provide adequate treatment of accidents, especially those associated with hazardous wastes.

(f) Personnel and Facilities. In order to provide proper staffing and suitable facilities the following shall be required at all sites, except where otherwise approved by the Department, in writing, for sites serving less than 5,000 people:

1. A trained equipment operator in full time attendance during operating hours.
2. Employees shall be trained in the proper and safe operation of all equipment and first aid procedures.
3. Communication facilities for use in emergencies.

(c) Equipment. To assure adequate operation the following is required:

1. Equipment sufficient for spreading, compacting, and covering operations;
2. Sufficient reserve equipment, or arrangements to provide alternate equipment within 24 hours following equipment breakdown;
3. Safety devices on equipment to shield and protect the operators from potential hazards during operation;
- (b) The Department recommends:
  1. A potable water supply;
  2. A suitable employee shelter;
  3. Handwashing and toilet facilities;
  4. Equipment wash-out facilities;
  5. Electric service for operations and repair;
  6. Equipment shelter for maintenance and storage of parts, equipment and tools.

#### (B) Operations:

(a) At the time of design approval or at any time ground water contamination is suspected the Department shall have the option to require the installation of monitoring wells and may specify the number, location, and depth of monitoring wells in addition to the frequency of samples to be taken, and the analysis to be run.

(b) A minimum separation of five (5) feet shall be maintained between putrescible solid waste and autoclaved high ground water table. Nonputrescible and incombustible materials such as brick, stone, concrete, and similar materials but not yard clippings, asphalt or other bituminous materials may be deposited below the anticipated high ground water table if in the determination of the Department such deposition will not result in the pollution of ground water. The Department may at its discretion waive this requirement if it finds adequate controls such as perimeter ditches or well point systems are provided. Exceptions will not normally be granted for areas where the soil is saturated or the capillary fringe reaches the soil surface an average of more than two months per year, seven out of ten years.

(c) Sanitary landfills shall provide for the collection, control and treatment of surface runoff from the site to meet established water quality standards of the receiving waters.

(d) Any leachate emanating from a landfill shall be collected and treated if it is a potential source of water pollution.

(e) The grade of the completed refuse cells and lifts in addition to the final cover shall drain the surface runoff water to prevent uncontrolled ponding. Thus, it is best to slightly overdesign initial grades so that good drainage will be maintained after final settlement.

(f) All completed portions of sanitary landfills which have received final cover and no future vehicular traffic is anticipated shall be planted with grass or acceptable cover vegetation to minimize infiltration, erosion and dust.

(g) All sanitary landfills where gas generated by decomposition of wastes cannot readily be dispersed into the atmosphere shall be provided with a gas control system. This requirement is particularly applicable to all multiple lifts sites.

(h) All solid waste shall be spread in layers of approximately two (2) feet in thickness and compacted to approximately one (1) foot in

thickness before the next layer is applied.

(i) All solid waste except materials such as abandoned vehicles, white goods and certain hazardous wastes as specified by the Department shall be compacted in firm cells which have a vertical depth not to exceed ten (10) feet with working face and side grades at a slope of approximately thirty (30) degrees.

(j) All cells shall receive a compacted cover of six (6) inches of earth once each working day.

(k) The working face of a cell shall be kept as narrow as is consistent with the proper operation of trucks and equipment to minimize exposed areas.

(l) An intermediate cover of one (1) foot of compacted earth in addition to the daily six (6) inch cover shall be applied within seven (7) days of cell completion if final cover is not to be applied within one (1) year of cell completion especially on all sites where multiple lifts are to be constructed.

(m) All completed cells shall receive a final cover of two (2) feet of earth compacted in six (6) inch layers within one (1) year of cell completion with the final six (6) inches loosely compacted to promote plant growth.

(n) The side slopes in addition to the top of all completed sanitary landfills constructed five (5) feet or more above surrounding ground elevation shall have a minimum of three and one half (3 1/2) feet of compacted earth cover (which is the sum of daily, intermediate and final cover). The sides shall have a slope not to exceed one (1) foot vertical to three (3) feet horizontal to minimize erosion.

(o) Pesticides used to control rodents, flies and other insects shall be as specified by the Florida Department of Agriculture and Consumer Services, (Chapter 5-E-2).

(p) Uncontrolled and unauthorized scavenging shall not be permitted at any sanitary landfill site. Controlled salvaging may be permitted by the local authority responsible for the facility.

(q) Alternate procedures not included in this section shall require Department approval.

(4) Yard Trash Site Criteria. The following criteria shall apply only to yard trash sites:

(a) Site Requirements. The yard trash site location shall comply with the prohibitions under Section 17-7.04(2) relating to location.

1. be easily accessible by collection vehicles, automobiles and where applicable, transfer vehicles; from the disposal of solid waste;

2. safeguard against water pollution originating from the disposal of solid waste;

3. have an adequate quantity of acceptable earth cover available. The cover material should be easily workable, compactable, and should not contain organic matter conducive to the harborage and/or breeding of vectors;

4. conform with the proper zoning.

(b) Operation Plans — The proposed operational plans shall include:

1. Map or aerial photograph of the area showing land use and zoning within one-fourth (1/4) mile of the solid waste disposal site. This photograph shall be of sufficient scale to show all homes, industrial buildings, wells, watercourses, dry run, rock outcroppings, roads and other significant details.

2. A report shall accompany the plans indicating:

a. Source and characteristics of cover material.

#### 17-7.06 Special Waste Handling:

(1) Disposal of waste sludges and liquids including septic tank contents referred to in 17-3.09, shall be with special consideration of air and water pollution and health and safety of landfill employees. Appropriate provisions shall be made for handling these waste materials in a landfill, only where alternate disposal methods are not available and when such disposal does not violate laws and regulations.

(2) If abandoned vehicles are brought to the site, they may be stored temporarily in a separate area, provided arrangements have been made for frequent removal to an automobile shredding, or compacting plant. If such arrangement has not been made all abandoned automobiles, white goods and similar materials shall be compacted before being placed in the fill area to minimize voids.

(3) In the event of natural disasters, in which large accumulations of debris are created — such as trees and buildings that have been destroyed from blizzards, and burned, in accordance with Chapter 17-5.06(1).

(4) Landfilling milled solid waste without daily soil cover can be an environmentally acceptable method of final disposal. The same engineering principles involved in sanitary landfill sites must be employed, including a properly designed, and operated milling facility. The Department will grant approvals contingent upon the following conditions:

(a) Particle size. Seventy percent (70%) of all milled refuse, dry weight, shall be capable of passing through a three (3) inch screen.

(b) Waste must be spread to a smooth contour and compacted promptly after placement and left undisturbed to prevent odors. Wind blowing of milled refuse and paper shall be controlled.

(c) Gas entrapment in milled solid waste is minimal. However, addition of cover or possible migration of gases through fissures, etc., requires the same attention to gas control as a sanitary landfill.

(d) All solid waste storage areas in the milling facility must be maintained and cleaned at the end of each day's operations, or during continuous operation, as necessary, to prevent fly, rodent or other vector problems. All milling equipment must be maintained to control spillage and to achieve the required milled product quality.

(e) An operational plan must include provision for removal and proper disposal of waste within 24 hours should the mill facility break down or operational quality is diminished. The operational plan must include provision for a stock pile of emergency soil cover material and a plan to convert the operation to a sanitary landfill.

(f) Upon completion of the site, it shall be closed, covered with a final one (1) foot thick soil cover and shall be seeded or planted with grass or suitable cover vegetation to minimize erosion.

Specific Authority 403.061 FS Law Implemented 403.021, 403.031, 403.061, 403.081, 403.101 through 403.113 FS, Chapter 14.322, Funnery—Transferred from 10B-12.81, 10-1-14.

#### 17-7.07 Dump Closing:

It shall be required of all persons operating land disposal sites which are dumps, as defined in Section 17.02(7) to eliminate or convert them to sanitary landfills as expeditiously as possible but no later than

July 1, 1977. The site shall be closed in accordance with the following criteria:

- (1) Access to the site shall be restricted by a fence or other appropriate and effective means.
- (2) Information signs shall be placed at the entrance to the site and on roads leading to the site stating that it is closed, the penalty for dumping at the site, the location and hours of operation of the alternate approved site and the name of the operating agency.
- (3) A responsible person shall be assigned to supervise the closing procedures on a full time basis during the closing operations.
- (4) Burning of solid waste shall be prohibited except upon approval by the Department.
- (5) The site shall be closed to incoming solid waste as soon as the alternate site is in operation.
- (6) Steps shall be taken, where potential water pollution exists, to prevent the continuance by diverting surface waters around the site, removing wastes from the water table, or by other means approved by the Department.
- (7) Upon completion, the closed site shall be seeded or planted with grass or suitable cover vegetation to minimize erosion.

Specific Authority 403.061 F.S. Law Implemented 403.021, 403.031, 403.061, 403.067, 403.701 through 403.713 F.S. Chapter 14-342, History—Transferred from 10D-12.01, 10-174.

#### 17-7.08 Supervision and Inspection.

- (1) Supervision of the operation shall be the responsibility of a qualified person experienced in the operation of a resource recovery and management facility.
- (2) Routine inspections and evaluations of

facility operations shall be made by the Department, their correction, shall be provided to the person responsible for the operation.

- (3) Inspection of a completed sanitary landfill shall be made by the Department before the earthmoving equipment is removed from the site. Any corrective work shall be performed before the landfill project is accepted by the Department as completed. Arrangements shall be made for the repair or restoration of the final cover as required for at least two years following completion.

Specific Authority 403.061 F.S. Law Implemented 403.021, 403.031, 403.061, 403.067, 403.701 through 403.713 F.S. Chapter 14-342, History—Transferred from 10D-12.01, 10-174.

#### 17-7.09 Volume Reduction Plants.

- (1) Permits will be required for all volume reduction plants as defined in Section 17-7.02(12).
- (2) Volume reduction plants shall be designed and operated to meet all applicable rules of the Department including Chapters 17-2 and 17-3 F.A.C. and shall be reviewed for permitting based on the receipt of comprehensive data on the process and its relative potential as a pollution source.

- (3) Recovered resources resulting from such facilities and which may be offered for sale shall comply with applicable regulations of all appropriate State agencies.
- (4) Experimental methods and operations will be reviewed by the Department for a permit based on purpose and design effectiveness.

Specific Authority 403.061 F.S. Law Implemented 403.021, 403.031, 403.061, 403.067, 403.701 through 403.713 F.S. Chapter 14-342, History—New 10-174.

### PART II: STATE RESOURCE RECOVERY AND MANAGEMENT PROGRAM

#### 17-7.20 Declaration and Intent. The Florida

Department of Environmental Regulation does hereby establish a State Resource Recovery and Management Program under the authority granted by Chapter 403.705 F.S. as follows:

##### "403.705 State resource recovery and management program"

- (1) The state resource recovery and management program shall provide guidelines for the orderly collection, transportation, storage, separation, processing, recovery, recycling and disposal of solid waste throughout the state, encourage coordinated local activity within a common geographical area, and investigate the present status of solid waste management in the state with positive proposals for local action to correct deficiencies in present resource recovery and management processes.

All counties and municipalities are required to adopt a local Resource Recovery and Management Program pursuant to the provisions of Chapter 403.706 F.S. as follows:

- "403.706 Local resource recovery and management programs"
- (1) Within two (2) years after the department adopts the state resource recovery and management program, all counties and municipalities shall adopt, either solely or in cooperation with other counties

responsibility of the public agency or agencies involved.

The ultimate goal of the program is: Development and implementation of a continuing state-wide resource recovery and management program to recover all usable materials and energy contained in solid waste, with proper disposal of residual and hazardous wastes.

Specific Authority 403.704(1) F.S. Law Implemented 403.105, 403.706 F.S. History—New 7-20-76.

17-7.21 Definitions. The following words, phrases or terms as used in this Chapter, unless the context indicates otherwise, shall have the following meaning:

- (1) "Agricultural Waste" means the solid waste that results from the raising and slaughtering of animals and the processing of animal products, orchard and field crops which are stored, transported or disposed of as an unwanted waste material and which may be a potential pollution source.

- (2) "Available Market" means any person, user or enterprise, willing to enter into a long term contract or agreement to purchase materials or energy recovered from solid waste.

- (3) "Bailing" means a method of reducing and retaining solid waste volume by mechanical compaction to achieve high density per unit volume to affect cost savings in transfer, hauling and disposal.
- (4) "Bulky Wastes" means items whose large size or weight precludes or complicates their handling by normal collection, processing, or disposal methods.

- (5) "Council" means the Florida Resource Recovery Council.

- (6) "Dead Animals" means animals that have died from any cause and which are left on public or private property without proper burial.

- (7) "Designated Areas" means those areas which are recommended by the Resource Recovery Council pursuant to Section 403.710(4) F.S. to plan for and engage in recycling or resource recovery programs, and are designated in Section 17-7.24, F.A.C.

- (8) "Energy Recovery" means the conversion of solid waste into energy or a marketable fuel.

- (9) "Generation" means the act or process of producing solid waste, or a marketable energy fuel.

- (10) "Implement" means to carry out, accomplish, give practical effect to and ensure actual fulfillment by concrete means or provide instruments or means of expression for.

- (11) "Implementation Schedule" means a timetable for carrying out a local plan.

- (12) "Local Agency" means a county or a municipality.

- (13) "Local Solid Waste Program" means a local resource recovery and management program as described in Section 17-7.23 of this rule which includes a plan and an implementation schedule.

- (14) "Materials Recovery" means any manual or mechanical process in which one or more of the various components in solid waste are separated, concentrated, and reused.

- (15) "Non-Designated Areas" means those areas which are not recommended by the Resource Recovery Council to plan for resource recovery.

- (16) "Planning Area" means the area defined by a local agency or agencies for solid waste management and resource recovery management

Planning.

- (17) "Post-collection recovery" means manual or mechanical separation and recovery of materials from mixed municipal solid waste upon delivery at a resource recovery and management facility.
- (18) "Promiscuous Dump" means an unauthorized site where indiscriminate deposits of solid waste are made by unlicensed persons.

- (19) "Recoverable Resources" means post-consumer materials which still have useful physical or chemical properties after serving a specific purpose and can be reused or recycled for the same or other purposes.

- (20) "Regional Agency" means one or more public agencies joining together by inter-local agreement for a stated period of time or by special Act of the Legislature, to assume the responsibility for resource recovery and management. General Authority: Chapter 163, F.S.

- (21) "Rural Contaminized Collection System" means a collection system which involves mechanically serviceable containers, strategically located throughout an area (much like road side litter barrels) that are picked up on a regular schedule by a truck and their contents delivered to a transfer station, solid waste processing or disposal facility.

- (22) "Sanitary Nuisance" means the commission of any act by a person, or the keeping, maintaining, propagation, existence or permission of anything by a person by which the health or lives of individuals may be threatened or impaired or by which disease may be caused.

- (23) "Shredding" means a process of reducing the particle size of solid waste through use of grinding, shredding, milling or rasping machines.

- (24) "Sludge" means a semi-liquid sediment.
- (25) "Source Separation" means the setting aside of separated recyclable waste materials at the point of generation (household or commercial) by the generator.

- (26) "Special Waste" 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.

- (27) "State Program" means the Resource Recovery and Management Program described in Chapter 403.705 and 403.706, F.S. and this rule.

- (28) "Ton" means a short ton, 2000 pounds.
- (29) "Transfer Station" means a facility where solid waste from several relatively small vehicles is placed into one relatively large vehicle before being transferred to a solid waste processing or disposal facility.

- (30) "Treatment" means the process of altering the character, physical or chemical condition of the waste to prevent pollution of water, air or soil to safeguard the public health or enable the waste to be recycled.

- (31) "Vector" means a carrier, usually anthropod, that is capable of transmitting a pathogen from one organism to another.

- (32) "Volume Reduction Plant" includes, but is not limited to, incinerators, pulverizers, compactors, shredding plants and other plants which stations, composting plants and other plants which accept and process solid waste for recycling or disposal.

- (33) "Waste Oil" means all types of waste-oil, including waste automotive lubricants, industrial

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waste oils, and other that may be a potential pollution source.

(34) "Yard Trash" means vegetative matter resulting from landscaping maintenance such as tree and shrub trimmings, grass clippings and palm fronds. Specific Authority: 403.704(1) F.S. Law Implemented: 403.704 F.S. History—New 7-20-76.

#### 17-7.22 State Agency Responsibilities.

The Department shall:

(a) have responsibility for the implementation and enforcement of the provisions of the Florida Resource Recovery and Management Act and the requirements of this rule.

(b) provide technical assistance to all local agencies in the development of their local programs.

(c) prepare and adopt by rule the State Resource Recovery and Management Program to guide local agencies in the preparation of local plans.

(d) review the design of and issue permits for the operation of resource recovery and management facilities.

(e) have responsibility for reviewing, renewing and approving local resource recovery and management programs submitted in accordance with Chapter 403.705(1) F.S., using the criteria in Sections 17-7.23, 7.24 and 7.25 of this rule.

(2) Resource Recovery Council. The Council shall:

(a) specifically recommend to the Department those counties, municipalities, or regions which will generate sufficient solid waste to make it economically practical to plan for recycling of solid waste and which therefore should be required to engage in recycling or resource recovery programs.

(b) Provide technical assistance to those areas designated to plan for resource recovery.

(c) review local programs that are submitted to the Department for approval and make whatever recommendations and findings it deems necessary. Specific Authority: 403.704.4 03.701, 403.710 F.S. Law Implemented: 403.704-403.707, 403.710 F.S. History—New 7-20-76.

17-7.23 Guidelines for Resource Recovery and Management Programs. Each local agency shall submit to the Department its local Resource Recovery and Management Program pursuant to Section 403.705 and Sections 17-7.24, 7.25 and 7.26 which is consistent with and implements the following guidelines:

(1) Storage of Solid Waste Prior to Collection.

(a) In all cases in which garbage and rubbish are combined, the standards for garbage shall prevail. The property owner or occupant shall store solid waste on his premises or property or shall require it to be stored or handled in such a manner as to prevent the propagation, harborage, or attraction of vectors, or the creation of a nuisance.

(b) All garbage and putrescible matter or mixed garbage and rubbish shall be deposited in containers which are either non-absorbent, watertight, vector resistant, durable, easily cleaned and designed for safe handling; or in paper or plastic bags having sufficient strength and water tightness and which are designed for the containment of refuse.

(c) Containers shall be of an adequate size and in sufficient numbers to contain without overflowing all the refuse, except yard trash, that a household or other establishment generates within the designated

period of time between collections. All containers shall be maintained in a sound, clean condition free from putrescible residue.

(d) Containers shall be free of all sharp edges and any inside structures which would prevent the free discharge of the contents.

(e) External stationary storage bins for putrescible solid waste shall be prohibited from being built or added on to existing or new buildings. New installations of underground receptacles shall be prohibited. Existing receptacles may continue in use until they become impractical to repair.

(f) Hazardous wastes shall be stored in such a manner and in such a container as to preclude transmission of disease or cause injury to collection and disposal personnel and the general public.

(g) Each refrigerated room and/or refrigerator used for the storage of putrescible wastes shall be thoroughly cleaned after each removal of putrescible waste. Waste water from such cleaning shall be disposed of by a sanitary method.

(h) Mechanically serviced containers (bulk containers) shall be designed or equipped so as to prevent spillage or leakage during on-site storage and/or transport. The container shall be easily cleanable and located on firm, level ground or a concrete pad, and shall be easily accessible by the collection vehicle.

(2) Collection and Removal of Solid Waste.

(a) Frequency of solid waste removal. The owner or tenant of any premises, business establishment or industry shall be responsible for the satisfactory removal of all solid waste accumulated by him on his property or his premises.

Where a residence is located on the normal route of an organized collection service, public or private, the occupant shall subscribe to the service. Excepting disruptions in normal collection schedules, putrescible wastes shall be collected a minimum of two times per week to prevent propagation, harborage, or attraction of flies, rodents or other vectors, and the creation of nuisances. Store frequent removal of putrescible wastes may be required by local agencies.

(b) Regulation of Collection Operators. Each person providing residential, commercial, or industrial solid waste collection service shall comply with all local government licenses, permits, or written approval requirements applicable to the jurisdiction in which such services are provided. Each local agency or regional agency, if any, shall maintain a complete listing of all persons holding written approvals to provide solid waste collection services within their jurisdiction. The listing shall contain the name and address of each such person, its office telephone number, and the number and types of vehicles used by such person in providing solid waste collection services.

(c) Collection Operator Qualifications. Local or regional agencies which authorize or designate persons or firms to provide solid waste collection services to the general public within their jurisdiction through contract or franchise, shall obtain sufficient information to show that such person or firm has adequate financial resources and experience to properly conduct the operation authorized.

(d) Equipment used in collection and transportation of solid waste shall be constructed, operated and maintained in such a manner as to

minimize the health and safety hazards to solid waste personnel and the public. Equipment shall be maintained in good mechanical condition and kept clean to prevent propagation and attraction of vectors and the creation of nuisances. It is recommended that they meet the standards established by the American National Standards Institute (ANSI) Section 245.1, Safety Standards for Refuse Collection Equipment as of the effective date(s) established in ANSI Section 245.1.

(e) All vehicles and equipment used for collection and transportation of solid waste shall be enclosed or adequate provisions shall be made for enclosed cover to prevent contents from escaping in accordance with Chapter 316 F.S.

(f) Where the backyard, carry-out system of collection is used, the common practice of collection personnel dumping garbage at the curb in any manner other than in an acceptable container for household refuse shall be prohibited.

(g) All rural collection systems shall be operated in a safe, efficient manner, and shall be in compliance with all applicable local and state regulations.

(3) Transportation — Transfer Stations. These standards shall not apply to container stations which are provided to serve as community or multi-residence receptacles for residential refuse, nor do they apply to storage receptacles for commercial solid wastes; a container used to store construction or demolition wastes at places of generation; or containers used to store salvaged materials.

(a) Transfer stations shall not be constructed or operated without a Department permit issued in accordance with Part 1 of this rule and specifically Chapter 17-7.09 and 17-7.05(2)(c)(i)(g)(h).

(b) The transfer facility shall be provided with operational appliances necessary to maintain a clean and orderly operation. The appropriate minimum features given in Part 1 of this rule Chapter 17-7.05(2)(c)(i)(g)(h) shall apply.

(c) The transfer station operator shall keep accurate records of materials handled at the station. Such records should include weights or volumes of waste handled in a manner and form approved by the Department. Accurate records should be kept for operational control and resource recovery planning. The records shall be open to inspection by Department representatives, health inspectors and other authorized regulatory and enforcement agencies during normal business hours.

(d) The transfer station shall be properly staffed to deal with all aspects of the station operation. Adequate supervision of personnel shall be provided.

(e) Transfer stations open to the public shall have an attendant on duty during operating hours to insure that health, fire or safety problems are not inflicted upon or caused by the public.

(f) Transfer stations shall be operated and maintained to comply with all applicable regulations. Proper operation shall include unloading of wastes to prevent them from becoming a litter or nuisance; cleaning of all loose materials or liquid spills or on a cleaning schedule approved by the Department; removal of all solid wastes every 48 hours or in accordance with an approved schedule.

(g) Salvaging in a controlled manner is allowed provided it does not interfere with other aspects of

the transfer station operation. Uncontrolled scavenging is prohibited.

(4) Public Recycling of Disposal Sites. The location of all solid waste disposal sites shall be a matter of record in the County property recording office for future reference in the event any problem arises concerning the site.

(5) Hazardous Waste, Hazardous and infectious waste as defined, shall be handled and disposed of only in accordance with Chapter 17-7.04(3)(4) and the following:

(a) Any solid waste facility accepting hazardous waste for treatment, storage or disposal shall provide protection for the quality of the air, surface and subsurface waters and for the protection of the health and welfare of the public.

(b) The owner of hazardous waste that cannot be recycled, reprocessed, or treated to render it innocuous shall provide the Department with evidence that it cannot be treated and request disposal guidance.

(c) Any facility that disposes of known hazardous wastes following approval by the Department shall record the date, quantity, chemical and trade names, chemical properties, name and address of the source and transporter of the waste. The facility operator shall have authority to reject any waste that is not properly identified.

(d) Records designating the location of buried hazardous wastes within a landfill site shall be maintained during the life of the site by the agency responsible for operation of the site. These records shall be reviewed by the Department during facility inspections. Records shall be submitted to the Department and appropriate local office of legal jurisdiction upon closing of the site.

(e) Monitoring wells shall be installed at all land disposal sites that are designated for hazardous waste disposal. A sampling and analysis program approved by the Department shall be conducted to determine if any pollution problem is created by the deposited wastes.

(f) Hazardous waste shipping requirements:

(i) When shipping hazardous wastes, the generator or owner of the hazardous wastes shall package, identify and label such materials in accordance with the Code of Federal Regulations, Title 49, Transportation, Parts 100.199, Oct. 1, 1974, which are hereby incorporated and made a part of this rule.

(ii) The generator and driver of any truck, a crew member of any train, or the captain of any vessel or aircraft carrying such hazardous wastes, with a list setting forth the hazardous waste carried, the amount of such waste and the general physical and chemical properties of such wastes. Such list, when appropriate, should include information on antitoxics, first aid or safety measures to be taken in case of accidental contact with the particular waste being carried. The person carrying or handling the hazardous waste shall have the list in his possession while carrying or handling the hazardous waste and shall release the list to a person responsible for the treatment or disposal of the hazardous waste at the time of delivery. The list shall be a matter of record at the disposal facility. Such list shall be shown on demand to any Department official, officer of the Florida Highway Patrol, or any local law enforcement

officer.

(g) Hazardous waste storage requirements:

(1) Hazardous wastes whose uncontrolled release into the environment would cause acute and/or chronic effects on air and water quality; on fish, wildlife, or other biota; and on the health and welfare of the public shall be stored only in special facilities where due regard has been given to the hazardous nature of the waste, protective enclosures, and operating procedures, and where adequate measures are taken to assure personal safety, accident prevention, and detection of potential environmental damages.

(2) Rules of the State Fire Marshal Chapter 4A-2, 4A-20, et al., pertaining to explosives and hazardous chemicals should be consulted where applicable.

(c) Special Wastes.

(a) Dead animals.

1. Dead animals on public property shall be collected and disposed of promptly to prevent them from becoming a sanitary nuisance.

2. The local agency should establish a service to assure prompt pickup and disposal of dead animals.

3. If an animal is known or suspected to have died of a communicable disease, the handling and disposal of the carcass shall be in accordance with Chapter 8-3.041 F.S.

(b) Abandoned Vehicles. The local agency should provide for the removal of abandoned vehicles from public and private property, title release, pickup and removal authority, the designation of a storage area and a recycle or disposal system.

(c) White Goods. The local agency should provide for collection, disposal or recycling of white goods.

(d) Sludges. Sludges which may be hazardous due to their chemical composition shall be disposed of in accordance with Chapter 17-7, Part I, Section 17.7.04(3). Other sludges shall be disposed of in accordance with Chapter 17-7, Part I, Section 17.7.06(1).

(e) Industrial Waste.

The disposal of industrial waste shall be the responsibility of the producer of such waste and shall be in accordance with applicable state and local regulations.

(f) Processing and Recycling of Solid Waste. (a) All residual solid wastes resulting from a recovery process shall be disposed of in a sanitary landfill or by other approved methods.

(b) All processed water or wastewater shall be treated as required by approved methods before discharge into receiving waters.

(c) All gaseous emissions shall be in compliance with air quality standards.

(d) Recovered materials shall be stored in a controlled area, designed and operated to prevent environmental contamination.

(e) All solid waste, recovered materials or residues handled at a volume reduction plant shall be stored in a manner so as not to constitute a fire or safety hazard or a sanitary nuisance, and shall comply with all applicable local and state regulations.

(f) Volume reduction plants shall have adequate storage areas, cleaning and maintenance schedules as outlined in Chapter 17-7.06(4)(e).

(g) All volume reduction plants shall provide a

state and the potential markets for that energy. The economic factors were determined on a county basis but resource recovery programs should be developed to encourage coordinated local activity within a common geographic area rather than by political jurisdiction. Local agencies shall determine the planning arrangement which will best provide the coordination and flexibility under varying local circumstances to plan for and engage in resource recovery.

The following designated counties, recommended to the Department of Environmental Regulation by the Resource Recovery Council, including each municipality located therein, shall submit to the Department, separately, or in coordination with other local or regional government entities, a local resource recovery and management program required by Section 403.706(1) F.S., which includes provisions for recycling or resource recovery:

|          |              |          |
|----------|--------------|----------|
| Alachua  | Hillsborough | Pinellas |
| Bay      | Lee          | Polk     |
| Brevard  | Leon         | Sarasota |
| Dade     | Manatee      | Seminole |
| Duval    | Orange       | Volusia  |
| Escambia | Palm Beach   |          |
|          | Pasco        |          |

All areas not listed are "non-designated" areas which are not presently required to plan for an engage in resource recovery. This does not preclude those local jurisdictions from undertaking resource recovery if they so choose.

The resource recovery area designations above are based on the best evidence available to the Department on the date of adoption of this rule. If a designated area determines, at some future time, that the preponderance of evidence indicates that it is not economically practical to plan for and to engage in recycling and resource recovery, it may file a petition to amend this rule pursuant to Section 120.54(4) F.S. Specific Authority 403.704(1) F.S., Law Implemented 403.705, 403.706, 403.710(4) F.S., History-New 7-20-78, Amended 11-8-78.

17-7.25 Local Agency Responsibility.

(1) Local Program Adoption. Each local agency, within two (2) years after adoption of the State Resource Recovery and Management Program, shall either solely or in cooperation with other counties and/or municipalities, prepare and adopt a local resource recovery and management program. The program adopted by the local agency shall implement the provisions of the state program for either "non-designated areas" or "designated areas" as appropriate, by adequately providing for the collection, transportation, storage, separation, processing, recovery, recycling, or disposal of solid waste generated or existing within the boundaries of the county or incorporated limits of the municipality or in the area served thereby.

(2) Programs for Non-Designated Areas. The comprehensive resource recovery and management program prepared by the appropriate local agency for submission to the Department of Environmental Regulation for its approval shall include the following documentation:

(a) a description of existing solid waste

management practices, population, solid waste generation sources, quantities and characteristics. (b) the solid waste management systems preferred by the local agency, projected population, and waste generation sources, quantities and characteristics. Proposed systems may combine several storage, collection, transportation and disposal methods.

(c) comparison of proposed systems on an economic basis, including costs and benefits of public health and environmental protection. An analysis of the system shall consider the capacities, costs, source of revenue for system operation, functions, organization, general location, operating method, design considerations, required permits and licenses, and staging of construction. Financial and management structure and public information programs shall be included in the analysis.

(d) consideration of the use of private industry in the solid waste management system.

(e) investigation of cooperation with other jurisdictions and development of intergovernmental agreements to form regional solid waste management agencies that may be mutually beneficial.

(f) the acquisition of suitable land with appropriate zoning for solid waste management facilities.

(g) the inclusion of special waste and hazardous waste control.

(h) a disaster plan which shall be an integral part of the total program.

(3) Programs for Designated Areas. A resource recovery and management program shall be prepared by the appropriate agency in accordance with the requirements contained in Subsection (2) above applicable to non-designated areas, but shall also include a resource recovery element which contains the following:

(a) existing resource recovery and recycling activities, both public and private.

(b) a study of available and potential stable long-term markets for recovered materials and refuse derived fuels, transportation and associated logistical factors.

(c) an analysis of the economics of technology options.

(d) an analysis of the economics of waste reduction options.

(e) selection of a reliable technology compatible with local circumstances.

(f) an assessment of energy requirements, financing, management, operation, and environmental factors pertinent to the chosen technology.

(4) Implementation Schedules. Each program shall show how and when the various phases of the local program will be implemented.

Specific Authority 403.704(1) F.S., Law Implemented 403.705, 403.706 F.S., History-New 7-20-78.

17-7.26 Local Program Submittal.

(1) Resource Recovery and Management Programs prepared and adopted in accordance with Section 17-7.23 and 17-7.24 shall be submitted by local agencies to the Department for approval. Prior to submittal, the programs shall be reviewed by all local and regional planning agencies involved in the programs. Prior to Department approval, the Council shall review the resource recovery and management programs and make recommendations and findings if deemed necessary. Upon review by the Council and

approval by the Department, the program shall be implemented by the local agency.

(2) Local agencies shall adopt and submit their respective programs to the Department for approval no later than July 1, 1978. The programs shall be submitted in accordance with the following:

(a) Provide four (4) copies on 8 1/2 by 11 inch paper. Unsize maps or drawings may be folded to this size.

(b) Comments from all appropriate planning agencies and copies of inter-local agreements from involved local agencies shall accompany the programs submitted.

Specific Authority 403.704(1) FS. Law Implemented 403.705, 403.706 FS. History-New 7-20-76.

17-7.27 Extension Procedures. The time limit stated in Section 17-7.23 for the preparation and submission of a local resource recovery and management plan may be extended upon application to the Department by the local agency. Applications for a time extension shall not be granted unless they are supported by evidence that good faith efforts by the local agency to meet the requirements of this rule have been and are being made.

Specific Authority 403.705 FS. Law Implemented 403.706 FS. History-New 7-20-76.

17-7.28 Permitting. Rules governing the permitting of resource recovery and management facilities are contained in Chapter 17-7 Part I of this rule.

Specific Authority 403.704(1) FS. Law Implemented 403.706(5), 403.707(1) FS. History-New 7-20-76.

17-7.29 Amendment to an Approved Program.

(1) The procedure for amendment of a program approved by the Department shall be as for approval of the original program. A specific amendment is one that proposes to change methods of handling, practices, technologies, or financial and management arrangements contained in the program.

(2) Minor corrections, updates, or modifications of the program shall not be considered amendments.

Specific Authority 403.704(1) FS. Law Implemented 403.705 FS. History-New 7-20-76.

17-7.30 Approval of Local or Regional Resource Recovery and Management Programs. The Resource Recovery Council will review and the Department evaluate and approve, local or regional programs based on evaluation of information which shall be contained in each program. Information on the following topics is considered essential to enable proper evaluation of each program.

(1) Background Data

(a) Jurisdiction: definition of the scope and authority of the planning area.

(b) Physical Conditions: description of environmental conditions, geology, soils, climatology, drainage basins, other pertinent physical features.

(2) Existing Conditions: description of specific existing conditions affecting management of solid wastes.

(a) Storage practices, collection practices and routes.

(b) Quantities and types of wastes generated and collected, i.e., residential, commercial, hazardous, industrial, municipal, sludges.

(c) Disposal and processing facilities.

(d) General management practices; i.e., objectives.

(b) An indication of current waste composition in the planning area.

(c) An evaluation and selection of markets for the recovery of energy or material, location, type, characteristics and estimated revenues.

(d) A summary description of technologies or resource recovery methods to be used.

(e) An assessment of the economic feasibility of the proposed resource recovery program.

(f) Provision for disposal of residuals, including site location, volume and type of residuals.

(6) Cost Estimates for Each Element of the Local Resource Recovery and Management Program. Shall be included in the Program. Include cost estimates for:

(a) Background research.

(b) Planning efforts.

(c) Development of solid waste management organization.

(d) Land acquisition.

(e) Collection and transportation systems.

17-7.30 Application for Permit.

# STATE OF FLORIDA

## DEPARTMENT OF POLLUTION CONTROL.

### CONSTRUCT ( )

### OPERATE ( )

### A SOLID WASTE

## APPLICATION TO

## RESOURCE RECOVERY AND MANAGEMENT FACILITY

Applicant:

(Owner or authorized agent)

Street Address:

Mailing Address:

(If different from above)

Location of Site:

(City)

(County)

(Township, Range, Section, & Lat., Long.)

(Name of Access Road and Crossroad)

Towns and Areas to be Served:

Population Served: \_\_\_\_\_

Area of Site: \_\_\_\_\_ Acres

Date Site Ready to Receive Refuse:

### General Requirements

A permit is required for each Resource Recovery and Regional Office of the Department of Pollution Management Facility. Separate applications for each Control. Complete appropriate sections of the permit, four copies each, should be submitted to the application for the type of facility proposed: sanitary

Landfill, incinerator, volume reduction plant, etc.  
Each application shall be accompanied by an application fee of \$20.00 payable by check drawn in favor of "State of Florida, Department of Pollution Control."

Applicant has the responsibility to provide copies of the application to appropriate city, county and/or regional pollution control agencies, established pursuant to Section 403.182 Florida Statutes. Applicant shall also clear the application through appropriate local planning agencies. Comments from any of these agencies shall be forwarded with the application to the Department.

Information contained in the application shall conform to requirements of Chapter 17-7 F.A.C. All entries should be typed or printed in ink. If additional space is needed, separate, properly identified sheets of paper may be attached.

All documents submitted to support the application should be on 5.5" x 11" paper.

Processing of the application will begin when the foregoing requirements have been met.

Permit Number \_\_\_\_\_ Issue Date \_\_\_\_\_

Review Date \_\_\_\_\_ Expiration Date \_\_\_\_\_

(1) Statement by Applicant and Engineer

A. Applicant \_\_\_\_\_  
The undersigned owner, or authorized representative, of \_\_\_\_\_, a waste treatment facility, makes in this form and attached exhibits an application for a permit from the Florida Department of Pollution Control and certifies that the information in this application is true and correct. Further, the undersigned agrees to comply with the provisions of Chapter 403 Florida Statutes and all the rules and regulations of the Department. It is understood that the permit is not transferable, and if granted a permit, the Department will be notified prior to the sale or legal transfer of the permitted establishment.

Signature of owner or agent \_\_\_\_\_  
Name and Title \_\_\_\_\_  
Date: \_\_\_\_\_

B. Professional Engineer Registered in Florida \_\_\_\_\_  
This is to certify that the engineering features of this resource recovery and management facility have been designed, supervised by me and found to conform to engineering standards applicable to such facilities. In my professional judgment, this facility, when properly maintained and operated, will comply with all applicable statutes of the State of Florida and rules of the Department, and with a set of instructions for proper maintenance and operation of the facility.

Signature \_\_\_\_\_  
Name: \_\_\_\_\_  
Florida Registration Number: \_\_\_\_\_  
(Please also see)

(2) Sanitary landfill including mulled refuse disposal sites (Submit in the order listed)

1. Maps  
A. A location map drawn to a scale of one inch equals one half mile showing the contours and elevation of the site surrounding the site.  
B. A topographic map of the site drawn to a scale not to exceed one inch equals two

NOTE: Additional information may be required as determined by the Department.

hundred feet showing existing and final property lines.  
A. Drawings which shall include:  
B. Land use including existing habitation; other structures; public roads and highways; shallow and deep water; trees, etc.  
C. Area and depth of the proposed fill.  
D. Location and elevation of surface and highest ground water.  
E. A wind rose to show prevailing winds.  
F. Special provisions for surface and subsurface drainage and erosion control.  
G. Leachate treatment and control provisions.  
H. Necessary provisions for air pollution.  
I. Other information showing typical site not to exceed ten feet compacted depth of refuse each bit and the final grade of the completed operation.  
J. Locations of stockpiled cover material.  
K. Access roads, approach roads and on-site parking, direction and information signs.  
L. Weighing facilities, locker room, toilet and shower facilities, equipment shelter, and wash-out facilities.  
M. Locations of existing and proposed utilities.  
N. Fuel Control and portable water supply locations.  
O. Hydrogeologic Report which shall include:  
(1) Thickness and character of the overburden (soil).  
(2) Character of bedrock.  
(3) Depth of the water table and potentiometric surfaces.  
(4) Depth to the shallow ground water aquifer.  
(5) Local and regional ground water flow systems.  
(6) Chemical quality of surface and ground water. (See Page 24 - A Handbook for Sanitary Landfills in Florida for list of substances to be tested for).  
(7) Frequency and extent of flooding of the site.  
(8) Nature and volume of the waste materials to be buried.  
(9) Solid Survey which shall include:  
A. Depth to seasonal high water table.  
B. Soil Series.  
C. Soil Drainage Class.  
D. Flooding.  
E. Seismicity.  
F. Soil Texture (dominant to depth of 60").  
G. Depth to bedrock.  
H. Rockiness Class.  
I. Rockiness Class.  
J. Equipment - Discus:  
A. Present types, size, number.  
B. Proposed types, size, number.  
C. Discus located on site of water to be handled.  
D. Discus located on site of water to be handled.  
E. Operating procedures - explain methods of working face.  
F. Controlling the length and width of the working face.  
G. Disposal of large items, special industrial, and hazardous waste to the site.  
H. Weathering of the site.  
I. Weathering in the waste of a natural quarry.  
J. Emergency provisions for insect and rodent control.  
K. Providing adequate site supervision.  
L. Controlling unauthorized access.  
M. Maintaining and weather access road.  
N. Weathering of the site.  
O. Weathering of the site.  
P. Weathering of the site.  
Q. Weathering of the site.  
R. Weathering of the site.  
S. Weathering of the site.  
T. Weathering of the site.  
U. Weathering of the site.  
V. Weathering of the site.  
W. Weathering of the site.  
X. Weathering of the site.  
Y. Weathering of the site.  
Z. Weathering of the site.

CHAPTER 17-7 RESOURCE RECOVERY AND MANAGEMENT

(3) Land Disposal Site Data Form (Fill in the check blocks as appropriate.)

CONTROL NO. \_\_\_\_\_

1. COUNTY \_\_\_\_\_ 2. SITE \_\_\_\_\_ 3. DATE \_\_\_\_\_

4. STREET ADDRESS \_\_\_\_\_

5. LOCATION UTM \_\_\_\_\_

6. RESPONSIBLE OPERATING AUTHORITY \_\_\_\_\_

7. OWNERSHIP \_\_\_\_\_

8. PHONE NO. \_\_\_\_\_

9. NO. OF ACRES \_\_\_\_\_

10. METHOD OF OPERATION \_\_\_\_\_

11. TOPOGRAPHY \_\_\_\_\_

12. SURROUNDING LAND-USE \_\_\_\_\_

13. JOINTING \_\_\_\_\_

14. PLANTED FINAL USE \_\_\_\_\_

15. TYPES OF WASTE RECEIVED \_\_\_\_\_

16. DATE OPEN FOR DISPOSAL \_\_\_\_\_

17. DEPTH OF WATER TABLE \_\_\_\_\_

18. NO. OF WELLS WITHIN ONE MILE \_\_\_\_\_

19. NO. OF WELLS ADJACENT TO SITE \_\_\_\_\_

20. NO. OF RESIDENCES OR BUSINESSES WITHIN 1000 FEET \_\_\_\_\_

21. SOIL TEXTURE \_\_\_\_\_

22. MONITORING WELLS \_\_\_\_\_

23. DRAINING IN WATER \_\_\_\_\_

24. LINER TYPE \_\_\_\_\_

25. OXIDATION POND \_\_\_\_\_

26. EVIDENCE OF LEACHING \_\_\_\_\_

27. FINAL TREATMENT \_\_\_\_\_

28. DISCHARGE \_\_\_\_\_

29. CELL DEPTH OF REFUSE \_\_\_\_\_

30. BLOWING PAPER CONTROL \_\_\_\_\_

31. ALL WEATHER ACCESS ROAD \_\_\_\_\_

32. SPREADING OF REFUSE IN 2 FT. LAYERS \_\_\_\_\_

33. ONE (1) FT. INTERMEDIATE COVER APPLIED WITHIN ONE (1) YEAR CELL COMPLETION \_\_\_\_\_

34. TWO (2) FT. FINAL COVER APPLIED WITHIN ONE (1) YEAR CELL COMPLETION \_\_\_\_\_

35. EQUIPMENT AVAILABLE DAILY \_\_\_\_\_

36. PROPOSED COST OF OPERATION \_\_\_\_\_

37. NAME OF PERSON COMPLETING FORM \_\_\_\_\_

38. REVIEW DATE \_\_\_\_\_

39. PERMIT NO. \_\_\_\_\_

40. EXPIRATION DATE \_\_\_\_\_

- collect and dispose methods and other cases):  
 (b) Land use, including habitations and other structures, roads, wells, vegetation, etc.  
 (c) Equipment used in the operation with equipment components shown in sufficient detail to indicate method of operations.  
 (d) Process flow, materials handling and storage.  
 (e) Location of existing and proposed utilities.  
 (f) Access routes, approach roads and on-site roads.  
 3. Process description to show:  
 (a) Method of operation.  
 (b) Type and volume of materials processed.  
 (c) Population and site served.  
 (d) Employee facilities.  
 (e) Provisions for disposal of residual waste after processing.  
 (f) Type of materials recovered and disposition of same.  
 (g) Process water and treatment after use.  
 (h) Auxiliary fuel.  
 (i) Schedule of operations.  
 (j) Site management.  
 (k) General maintenance procedures.  
 (l) Emergency procedures.  
 (m) Alternate waste handling procedures in the event of equipment breakdown, natural disasters.  
 (n) Corrective or alternate procedures in the event of diminished operational quality.  
 Specific Authority: 403.061, 403.087, 403.201 through 403.313 FS.  
 Chapter 74-342, History-New 10-1-74.

- the number of public water supply wells or deep wells within one mile of the site to the left of the word —  
 26. Plugging — Periods when the water table rises above the water level in the well, or water, check (d) frequent (f) on a regular basis, check (b) R.R.  
 27. Number of Roadways Adjacent to Site —  
 28. Slope of Site — Indicate the general slope of the site as experienced as a percentage.  
 29. Number of Incidents or Accidents Within 1000 Feet —  
 30. Soil Status — Indicate the type of soil, the depth of the site in a depth of at least 100 feet.  
 31. Soil Texture — Check the one which best describes the soil texture.  
 32. Permeability — This refers to permanent fencing surrounding the site.  
 33. Monitoring Wells — Check to indicate whether test wells exist to monitor any degradation of groundwater quality.  
 34. Potential Water Pollution — This should be evaluated on the basis of the relationship between the bottom of the landfill and the amount of material used for cover; soil types of materials being disposed of at the site.  
 35. Dumping in Water — This indicates the existence of a suitable ditch surrounding the site for the collection of flow through on-site runoff and the transmission of these wastes to receiving waters to a treatment pond.  
 36. Leachate — Indicate whether an impervious material is being placed to retard the movement of leachate into the shallow groundwater aquifer.  
 37. Liner Type — Check one of the materials listed which is used as a liner.  
 38. Well Point System — Indicate whether there is a well point system used to lower the water table in the immediate area of the landfill.  
 39. Oxidation Pond — Check whether or not there exists a pond to receive liquids collected in the immediate area and/or leachate collected in the immediate area or otherwise treat their liquid and remove settleable solids.  
 40. Pond Area — Indicate area in acres.  
 41. Depth of Soil to Bedrock — Indicate the measured depth of soil in feet between the surface and bedrock.  
 42. This information may be obtained from the required geological survey.  
 43. Evidence of Leaching — Leaching often manifests itself in the form of dark liquid coming from the bottom of the land disposal sites or through the contamination of nearby shallow water wells. On new sites, this has to be a judgment evaluation based on design under similar conditions.  
 44. Final Treatment Needed — Indicate whether liquids collected from existing or proposed sites will need final treatment prior to discharge.  
 45. Final Treatment — Check this item to enable the Department to determine if the proper type of treatment is to be provided. It may be either a single type or a combination of methods; however, if a single method is to be used other than those listed in the check (f) Other, if it is a combination of (a) Advanced, in addition to any other method listed, check (d) Advanced.  
 46. Final Treatment — Indicate whether a proposed or an existing site has or will have a need for rodent control measures.  
 47. Discharge — Check the receiving waters into which the collected liquids from the perimeter ditch or pond are discharged. Do not check (f) Other, if the pond is discharged to a body of water.  
 48. Rodent Control — Indicate whether rodent control is being adequately provided.  
 49. Cell Depth of Refuse — Vertical depth in feet of refuse between the base and the top surface of completed refuse before cover material is added.  
 50. Insect Problem — The same basis as item 49.  
 51. Insect Control — Indicate control if the site is blowdown covered.  
 52. Blowdown Covered — Check the one which best describes the daily and a portable snow fence or other measure is used to help control blowing papers.  
 53. Full Time Attendant — This is self-explanatory.  
 54. All Weather Access Road — This is self-explanatory.  
 55. Gas Control — Are special relief devices provided to

STAT. OF FLORIDA  
 DEPARTMENT OF POLLUTION CONTROL  
 INSTRUCTIONS FOR THE  
 "LAND DISPOSAL SITE DATA FORM"

The purpose of these instructions is to provide information to those filling out the "Land Disposal Site Data Form" so that the data is complete. This form is designed for use by the Department to have information on all registered land disposal sites operated in the State of Florida. This data form must be completed by the applicant as follows:

- The central number and the date, add, change and inactive block are for the Department's use only.  
 1. County — This is self-explanatory.  
 2. Site — The name of the land disposal site — not to exceed 30 letters. Abbreviate if necessary.  
 3. Date — The date of this report shall be 1-1-73.  
 4. Address — The address of the land disposal site. Abbreviate where necessary so as to not exceed 40 letters.  
 5. Location — The location of the disposal site in both UTM Coordinates and the township, range and section.  
 6. Responsible Operating Authority — The authority responsible for the operation of the disposal site. Abbreviate where necessary so as to not exceed 40 letters.  
 7. Ownership — The owner of the disposal site. Abbreviate where necessary so as to not exceed 40 letters.  
 8. Address — The mailing address of the agency shown in item 7. Abbreviate if necessary so as to not exceed 30 letters.  
 9. Phone Number — The phone number of the agency shown in item 7.  
 10. Population Served — The population which this disposal site is intended to serve.  
 11. Number of Acres — The total number of acres of land purchased or leased for the operation of this site.  
 12. Method of Operation — More than one item may be checked.  
 13. Topography — The topography of the area in which the site is located. Check one only as available at the site.  
 14. Soils — Check the worst of the waste received.  
 15. Surrounding Land Use — Check as many blocks as are appropriate to give the predominant land use within the immediate area of the site. If there is no immediate surrounding land use then (c) Vacant would be checked.  
 16. Zoning — Check if the site is located in an area which is zoned. If there is no zoning in the area, then (c) Vacant would be checked.  
 17. Year Begun — Year in which the operation of this site is to be begun or was begun.  
 18. Planned Final Use — Check if there is a planned final use which is listed; however, if there is not, then (f) Other would be checked.  
 19. Final Treatment — Check all types of waste treatment used at this site.  
 20. Burning — Chapter 17-5 prohibits open burning; however, check to denote whether new sites plan to use an incinerator to handle land disposal waste.  
 21. Days Open for Disposal — Circle the days on which the site is open for disposal.  
 22. Site Cover — Circle the day on which the site receives a 6" cover of compacted earth. If the site receives cover at intervals less frequently than once per week, then check none.  
 23. Depth of Water Table — Indicate the depth to the water table in feet below the surface of the site.  
 24. Soil Permeability — Indicate the rate at which water will percolate through the soil in terms of inches per hour.  
 25. Number of Wells Within One Mile — Indicate the number of private water supply wells within one mile of the site to the left of the word — Shallow. Indicate

(5) Volume Reduction Plant Data

|                                                                                                                                                                                                                                                                       |                    |                                         |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------|--|
| Control No. _____                                                                                                                                                                                                                                                     |                    | VOLUME REDUCTION PLANT DATA (Dept. Use) |  |
| 1. County _____                                                                                                                                                                                                                                                       | 2. Site Name _____ | 3. Date _____                           |  |
| 4. Street Address _____                                                                                                                                                                                                                                               |                    |                                         |  |
| 5. Location, UTM or Lat. & Long. _____ Township Range Section                                                                                                                                                                                                         |                    |                                         |  |
| 6. Operating Authority _____                                                                                                                                                                                                                                          |                    |                                         |  |
| 7. Owner _____                                                                                                                                                                                                                                                        |                    |                                         |  |
| 8. Address _____                                                                                                                                                                                                                                                      |                    |                                         |  |
| 9. Phone No. _____                                                                                                                                                                                                                                                    |                    |                                         |  |
| 10. Population Served _____                                                                                                                                                                                                                                           |                    |                                         |  |
| 11. Adjacent Land Use (a) Residential _____ (c) Agricultural _____ (e) Other _____ (b) Commercial _____ (d) Industrial _____                                                                                                                                          |                    |                                         |  |
| 12. Operations (a) Type of Operation _____ (b) Shredding _____ (c) Pyrolysis _____ (d) Baling _____ (e) Composting _____ (f) Other _____ (c) Compacting _____ (d) Transfer Stn. _____ (e) Transfer Stn. _____                                                         |                    |                                         |  |
| 13. Waste Received Tons/Day _____ or Cu. Yds./Day _____                                                                                                                                                                                                               |                    |                                         |  |
| 14. Material Recovered, Tons/Week (a) Paper _____ (c) Glass _____ (e) Non-ferrous Metals _____ (b) Ferrous Metals _____ (d) Rubber _____ (f) Other _____ (c) Aluminum _____ (d) Plastic _____ (e) Other _____                                                         |                    |                                         |  |
| 15. Energy Recovery (a) Bi-Pressure Steam Lbs./Mtr. _____ (c) Gas, Cable Ft./Mtr. _____ (b) Low-Pressure Steam Lbs./Mtr. _____ (d) Gas, BTU/Mtr. _____ (c) Electricity M/Mtr. _____ (e) Oil, Gal/Mtr. _____ (d) Chilled Water Gal/Mtr. _____ (f) Other Quantity _____ |                    |                                         |  |
| 16. Sludge Water (a) Discharged To _____ (c) Total Waste Ton _____ (b) Treatment _____ (d) Disposal To _____ (c) Recycled _____ (e) Estimated Operating Cost _____ (d) Type _____ (f) Total Salvage Value _____ (e) Quantity/Mtr. _____ (f) Net Operating Cost _____  |                    |                                         |  |

17-7.31 Permit Forms.

(1) Temporary operation permit

STATE OF FLORIDA

DEPARTMENT OF POLLUTION CONTROL

TEMPORARY OPERATION PERMIT

FOR A SOLID WASTE RESOURCE RECOVERY

AND MANAGEMENT FACILITY

Permit no. \_\_\_\_\_ Date \_\_\_\_\_

Pursuant to the provisions of section 407.06(1)(a) and 407.07 of Chapter 403 Florida Statutes and Chapter 17-4 and 17-7 Florida Administrative Code. This permit is issued to:

For the operation of the following:

Located at: \_\_\_\_\_

In accordance with the application dated \_\_\_\_\_

and in conformity with the statements and supporting data entered therein, all of which are filed with the department and are considered a part of this permit.

This permit shall be effective from the date of issue until \_\_\_\_\_

or until revoked or surrendered and shall be subject to all laws of the state and the rules and regulations of the department.

REGIONAL ENGINEER

PETER P. BALLET  
EXECUTIVE DIRECTOR

