

# Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347 • 813-623-5561

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary  
Dr. Richard Garrity, Deputy Assistant Secretary

June 22, 1989

Ms. Patty Berry  
Solid Waste Department  
Post Office Box 1110  
Tampa, Florida 33601

41193  
4029C30075

Re: Waste Tire Facility  
Southeast Landfill  
Pending Permit No.: S029-158504

Dear Ms. Berry:

Your May 22nd request to construct and operate a Waste Tire Facility at the Southeast Landfill appears to be in accordance with Department rules. However, the permit SC29-66321 will not be modified, as it has expired. At the time the operation permit renewal is issued, specific conditions will be included to address the Waste Tire Facility.

Sincerely,

Clabe R. Polk  
Administrator  
Division of Waste Management

CRP/kfr

cc: Daryl Smith, HCSW  
Kim Ford



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form # 17-711 (9006)
Form Title: Waste Tire Processing Facility Permit Ap.
Effective Date: February 22, 1989
DER Application No. (Filed in by DER)

Waste Tire Processing Facility Permit Application

1. Facility information:

Facility name: Hillsborough County Southeast Landfill
Street address (main entrance): 8.8 miles east of U.S. 301 on County Road 672
City: Lithia County: Hillsborough Zip: 33547
Mailing address: P. O. Box 1110
City: Tampa State: Florida Zip: 33601
Telephone number: (813) 634-8411, 634-4290
Location: Section: 13, 14, 15, 18, 19, 22, 23, 24 Township: 31 & 32S Range: 21E
Latitude: 27° 46' 25" Longitude: 82° 11' 15"

2. Application type (check appropriate box):

- Proposed new facility.
Existing unpermitted facility.
[X] Renewal of permitted facility. Permit number SC 29-66321
[X] Modification of permitted facility. Permit number SC 29-66321
Other. Explain

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3. Facility type (check appropriate box):

- Waste tire processing facility.
Waste tire processing facility with on-site disposal of processed tires or processing residuals.
[X] Permitted solid waste management facility modification to allow waste tire site and processing.

4. Property owner information:

Owner's name: Hillsborough County Department of Solid Waste
Owner's mailing address: P. O. Box 1110
City: Tampa State: FL Zip: 33601
Owner's telephone number: (813) 272-6674
Ownership type (check appropriate box): Individual Partnership Corporation [X] Government
Other, explain

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5. Facility operator information (if different from owner):

Operator's name: Waste Management, Inc.  
 Operator's mailing address: P.O. Box 997  
 City Lithia State Florida Zip 33547  
 Operator's telephone number: (813) 634-9203  
 Operator's type (check appropriate box):  Individual  Partnership  Corporation  Government  
 Other, explain \_\_\_\_\_

6. Preparer of application:

Name of person preparing application: Daryl H. Smith, Department of Solid Waste  
 Mailing address: P. O. Box 1110  
 City Tampa State FL Zip 33601  
 Telephone: (813) 272-6674  
 Affiliation with facility: Owner

7. Type of processing facility (check as many as apply):

Shredder  Cutter  Chopper  Incinerator only  Incinerator with energy recovery  Pyrolysis  
 Other, explain \_\_\_\_\_

8. Required attachments:

Please include the following information items in the application or give an explanation, if they are not applicable.

A. Facility design.

NOTE: All maps, plan sheets, drawings, isometrics, cross sections, or aerial photographs shall be legible; be signed and sealed by a registered professional engineer responsible for their preparation; be of appropriate scale to show clearly all required details; be numbered, referenced to narrative, titled, have a legend of symbols used, contain horizontal and vertical scales (where applicable), and specify drafting or origination dates; and use uniform scales as much as possible, contain a north arrow and use NGVD for all elevations.

- 1) A topographic or section map of the facility, including the surrounding area for one mile, no more than one year old, showing land use and zoning within one mile of the facility.
- 2) Evidence that the facility is in conformance with local zoning.
- 3) A plot plan of the facility on a scale of not less than one inch equals 200 feet. At a minimum, the plot plan shall include:
  - a) The facility design, including the location and size of all storage and processing areas for waste tires, processed tires, and residuals from processing;
  - b) All wetlands and water bodies;
  - c) Stormwater control measures, including ditches, dikes and other structures;
  - d) Legal boundaries, easements and rights of way;
  - e) Location of all wells, operating and abandoned;
  - f) All structures and buildings that are or will be constructed at the facility; include those used in storage and processing operations;
  - g) All areas used for loading and unloading;
  - h) All access roads and internal roads, including fire lanes;
  - i) Location of all fences, gates, and other access control measures; and
  - j) Location of all processed tire or residual disposal areas.

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4) A completed application to construct a resource recovery and management facility for any disposal areas (DER Form 17-7.130(1), 12/10/85) must be submitted along with this application, if processed tires or processing residuals will be disposed of at the facility and the facility is not currently permitted as a solid waste management facility.

5) A completed solid waste volume reduction facility data form (DER Form 17-7.130(1), 12/10/85).

**B. Facility Operation.**

1) Description of the facility's operation, including how waste tires and processed tires will be collected, stored and processed.

2) Description of how each of storage requirements of Rule 17-711.540, F.A.C., will be met.

3) Copy of the emergency preparedness manual for the facility.

4) Copy of the fire safety survey.

5) Description of how 75% of the annual accumulation of waste tires and processed tires will be processed and removed for disposal or recycling.

C. Completed closure plan for the facility as required by Rule 17-711.700(2) and (3), F.A.C.

D. Attach proof of financial responsibility as required by Rule 17-711.510(2), F.A.C.

E. Attach permit fee required pursuant to Rule 17-141, F.A.C.

9. Indicate the quantities of waste tires and processed tires, expressed in tons, <sup>to be</sup> stored at the facility:

	Current Storage (tons)	Storage Area (sq. ft.) (includes Fire Ins.)	Maximum Storage (tons)
Waste tires	-0-	105,000 sq. ft.	1,500 TNS
Processed tires	-0-	75,000 sq. ft. (includes Fire Ins.)	1,000 TNS
<b>TOTALS</b>	-0-	180,000 sq. ft.	2,500 TNS

10. Facilities that will not be disposing of processed tires or processing residual on the facility site must indicate the permitted solid waste management facility where processed tires or residuals will be disposed.

Name of facility \_\_\_\_\_ N/A \_\_\_\_\_

Street address \_\_\_\_\_

City \_\_\_\_\_ County \_\_\_\_\_ Zip \_\_\_\_\_

11. Facilities that will be delivering processed tires to a recycling facility must describe the existing or proposed markets for processed tires.

\_\_\_\_\_ N/A \_\_\_\_\_

\_\_\_\_\_

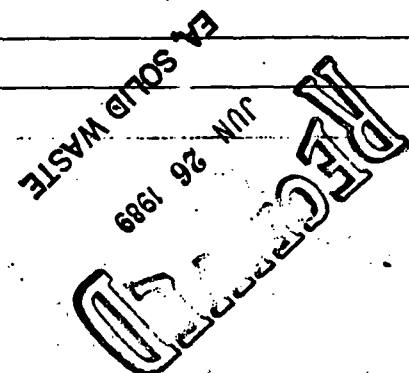
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DER Form #	17-711.900(6)
Form Title	Waste Tire Processing Facility Permit Ap.
Effective Date	February 22, 1989
DER Application No.	(Filed in by DER)

12. Certification:

A. Applicant.

Hillsborough County Department of Solid Waste

The undersigned applicant or authorized representative of Waste Tire Processing Facility (WTPQ) is aware that statements made in this form and attached information are an application for a (WTPQ)

Permit from the Florida Department of Environmental Regulation and certifies that the information in this application is true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to comply with the provisions of Chapter 403, Florida Statutes, and all rules and regulations of the Department. It is understood that the permit is not transferable, and the Department will be notified prior to the sale or legal transfer of the facility.

Daryl H. Smith  
Signature of Applicant or Agent

Daryl H. Smith, Director  
Name and Title

5/22/89  
Date

Attach letter of authorization if agent is not a governmental official, owner or corporate officer.

B. Professional Engineer registered in Florida.

This is to certify that the engineering features of this waste tire processing facility have been designed/examined by me and found to conform to engineering principals applicable to such facilities. In my professional judgement, this facility, when properly maintained and operated will comply with all applicable statutes of the State of Florida and rules of the Department. It is agreed that the undersigned will provide the applicant with a set of instructions for proper maintenance and operation of the facility.

Robert B. Gardner 5/22/89  
Signature

SCS Engineers  
3016 U.S. Highway 301 N, Suite 100  
Mailing address

Robert B. Gardner, Project Director  
Name and title

Tampa, Florida 33619  
City, State, Zip

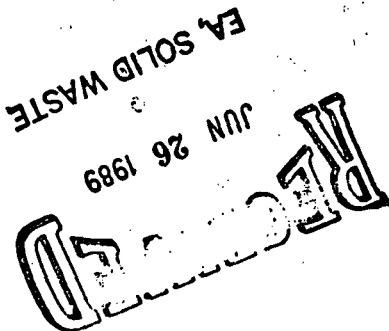
39233

Florida Registration Number

(813) 621-0080

Telephone number

(Please affix seal)



Mail completed form to appropriate district office listed on page 1.

**SOLID WASTE VOLUME REDUCTION AND  
RESOURCE RECOVERY FACILITY DATA FORM**

Permit No.: \_\_\_\_\_ Issue Date: \_\_\_\_\_ Expires: \_\_\_\_\_

Facility No. (DER Identification): \_\_\_\_\_

DER ACTION:  Add  Delete  Change  Deactivate Site  Other

1. County Hillsborough		2. Site Name Southeast Landfill	
3. Date Form Completed May 19, 1989		4. Facility Address 8.8 mi. east of U.S. 301 on C.R. 672	
4a. Facility Phone No. (813) 634-8411		4b. Facility Site Supervisor Al Allen (Hillsborough County)	
5a. <u>27</u> <u>46</u> <u>25</u> <u>82</u> <u>11</u> <u>15</u> Latitude                      Longitude	5b. <u>31. &amp; 32S</u> <u>21E</u> <u>13, 14, 15, 18, 19, 22, 23, 24</u> Township                      Range                      Section		
6. Operating Authority Name Hillsborough County Dept. of Solid Waste		8. Operating Authority Address N/A	
7. Phone Number (813) 272-6674			
9. Owner of Site Property (if different from Operator) N/A		11. Address of Owner N/A	
10. Phone Number of Owner			
12. Facility Type (check one or more)			
<input type="checkbox"/> Incinerator Only <input type="checkbox"/> Biomass Gas Production <input type="checkbox"/> Pyrolysis <input type="checkbox"/> Other: <input type="checkbox"/> Sludge Concentration <input type="checkbox"/> Baler (compactor) <input type="checkbox"/> Composting Plant                      Waste Tires <input type="checkbox"/> Transfer Station <input type="checkbox"/> Waterwall Incinerator <input checked="" type="checkbox"/> Shredder (pulverizer)			
13. Month/Year Begun 7/89 Stockpiling Tires		14. <del>Disposal</del> Area Processing 17 Acres	15. Population Served 1990-868,200
16. Expected Useful Lifetime 10 remaining Years		17. Weighing Scales <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	18. Waste Processed Per Operational Day * 100 tons/gal/yr
19. Charge/ Ton		20. Days Operated S [M] [T] [W] [T] [F] [S]	21. Hours/Day Operated 7:30 AM to 5:30 PM
22. Maximum Processing Rate 100 tons/day at a 10 hr day			
23. Material Recovered, Tons/Week		Other: Processed tires to be sized for usage as daily cover or land-filled when necessary.	
_____ Paper                      _____ Glass _____ Ferrous Metals                      _____ Non-Ferrous Metals _____ Aluminum                      _____ Plastics			
24. Energy Recovery, in units shown			
_____ High Pressure Steam-lb/hr                      _____ Chilled Water-gal/hr                      _____ Gas-ft <sup>3</sup> /hr _____ Low Pressure Steam-lb/hr                      _____ Oil-gal/hr                      _____ Gas-BTU/hr _____ Electricity-kw/hr                      _____ Oil-BTU/hr                      Other: N/A			
25. Process Water Recycled <input type="checkbox"/> Yes N/A <input type="checkbox"/> No		Treatment Method Used N/A	
Discharged to: <input type="checkbox"/> Surface Waters <input type="checkbox"/> Underground N/A		Class Receiving Water N/A	
26. Final Residue is 100 % of waste intake, less _____ lbs		Residue is disposed of at (Site Name) Southeast Landfill	
27. Supplementary Fuel Used N/A			
Type		Quantity Used/Hour	
28. Estimated Operating Costs Material - Energy Revenue \$ N/A		Total Cost/Ton \$ 50/ton**   Net Cost/Ton \$	
29. Number of Staff 3 laborers 1 operator		30. State Pollution Control Bond Financing Amount \$ N/A	31. Estimated Amount of Tax Exemptions that will be Requested \$ N/A
32. Name and Title of Person Completing Form Daryl H. Smith, Director, Department of Solid Waste			

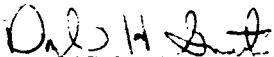
Note: All blanks must be filled or marked as not applicable.                      \* Processed every eight (8) Wk  
 \*\* Contracted Fee

**CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER**

Hillsborough County Department

**A. Applicant**

The undersigned applicant or authorized representative of of Solid Waste is aware that statements made in this form and attached information are an application for a Waste Tire Processing Operation (WTPO) Permit from the Florida Department of Environmental Regulation and certifies that the information in this application is true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to comply with the provisions of Chapter 403, Florida Statutes, and all rules and regulations of the Department. It is understood that the Permit is not transferable, and, the Department will be notified prior to the sale or legal transfer of the permitted facility.

  
 Signature of Applicant or Agent  
Joseph H. Smith, Director  
 Name and Title  
 Date: 5/22/89

Attach letter of authorization if agent is not a governmental official, owner, or corporate officer.

**B. Professional Engineer Registered in Florida or Public Officer as Required in Section 403.707 and 403.7075, Florida Statutes**

This is to certify that the engineering features of this resource recovery and management facility have been designed/examined by me and found to conform to engineering principals applicable to such facilities. In my professional judgement, this facility, when properly maintained and operated, will comply with all applicable statutes of the State of Florida and rules of the Department. It is agreed that the undersigned will provide the applicant with a set of instructions of proper maintenance and operation of the facility.

Signature	Mailing Address
Name and title (please type)	City, State, Zip Code
Florida Registration Number (please affix seal)	Telephone Number
	Date:

Construction Cost Estimate: \_\_\_\_\_

Permit Number: _____	Issue Date: _____
Review Date: _____	Expiration Date: _____

ATTACHMENT A

- 8.A 1) Previously submitted with the Solid Waste Facility Permit Application (on file at DER).
- 8.A 2) Previously submitted with the Solid Waste Facility Permit Application (on file at DER).
- 8.A 3) See attached plot plan, excluding 3)d) and e) which is on file at DER.
- 8.A 4) On file at DER (SC 29-66321).
- 8.A 5) See Attachment B.
- 8.B See attached Facility Operation Description, (Attachment C).
- 8.C See attached Facility Operation Description, (Attachment C).
- 8.D Included with Solid Waste Facility Permit Renewal Submittal.
- 8.E N/A See DER section 17-711.300(4), Waste Tire Rule.



FACILITY OPERATION DESCRIPTION  
ATTACHMENT C

Hillsborough County has designated approximately seventeen (17) acres, as indicated on the attached plot plan, for the waste tire storage and processing operation. Approximately five (5) acres of this area is to accommodate both the unprocessed tire stockpile, the processing facility and processing area and the processed tire stockpile area. The remaining acreage will be used for potential future expansion of the operation.

Site preparation will include a paved roadway to the storage and processing facility, site perimeter fencing with lockable entrance gates and an asphalt pad measuring 40 feet by 80 feet to place the shredder on.

Storage site areas will have all vegetation removed and covered with crushed oyster shell or other suitable compactible material. Stormwater control structures such as berms and/or diversion ditches will be constructed to divert stormwater or floodwaters around and away from the storage piles, as indicated on the plot plan.

Vehicles delivering waste tires to the site will enter through the main gate and be weighed at the time of entry and of exit from the facility in order to calculate the net weight of tires delivered to the site. A six foot (6') chain link fence is proposed around the tire operation as additional site security. Waste tires stored at the facility will be piled no larger than 200 feet long by 50 feet wide with a maximum area of 10,000 square feet. The piles will be monitored to ensure they do not exceed 15 feet in height. Fifty foot fire lanes will be maintained between any piles of whole or processed tires. Diversion berms will be constructed to control run off in the event of fires. All fire safety prevention requirements will be met and covered in an emergency preparedness manual.

Tires delivered to the facility for processing will be shredded using a portable tire shredder capable of processing 1,000 tires per hour into 2" by 2" chips. Processed tires will be removed on a regular basis so as not to accumulate more than 150,000 waste tires at any one time. These tires will be transported to the landfill working face for disposal or daily cover usage due to the County not intending to stockpile more than 100,000 processed tires at any time.

In closing of the waste tire processing facility, a notice to the public will be posted indicating the stoppage of access with instructions to where waste tires can be deposited for disposal. Notification of closing will be indicated to all regulatory and governing departments. Upon access closing, a ten (10) week time period for completion will be implemented to process all stockpiled waste tires for removal per the disposal plan.

Site rehabilitation will consist of the removal of all facility residuals to the Southeast Landfill and the land area will be regraded to direct stormwater to on-site retention basins.

WASTE MANAGEMENT, INC.  
TIRE OPERATION PROPOSAL

FACILITY OPERATION  
SHEET 1 OF 2

1. TIRES BEING DELIVERED TO THE SITE WILL ENTER THROUGH THE MAIN GATE. TRUCKS WILL BE WEIGHED AT THE TIME OF ENTRY AND OF EXIT FROM THE FACILITY.  
  
FOLLOWING THE INITIAL WEIGH IN, THE DRIVERS WILL BE DIRECTED TO THE TIRE STORAGE/PROCESSING AREA TO UNLOAD. THE TIRE SITE WILL BE MONITORED CLOSELY TO ENSURE THAT THE TIRE STORAGE REQUIREMENTS DESCRIBED IN PART 2 ARE MET.  
  
TONNAGE RECORDS WILL BE MAINTAINED IN ORDER NOT TO EXCEED 3,100 TONS OF TIRES, THE MAXIMUM STORAGE LIMIT.
  
2. PILES OF WHOLE WASTE TIRES STORED AT THE FACILITY WILL BE NO LARGER THAN 200 FEET LONG BY 50 FEET WIDE WITH A MAXIMUM AREA OF 10,000 SQUARE FEET. THE PILES WILL BE MONITORED TO ENSURE THEY DO NOT EXCEED 15 FEET IN HEIGHT.  
  
PILES OF PROCESSED TIRES SHALL NOT BE ALLOWED TO EXCEED 1,000 CUBIC YARDS PER PILE.  
  
FIFTY FOOT FIRE LANES WILL BE MAINTAINED BETWEEN ANY PILES OF WHOLE OR PROCESSED TIRES. DIVERSION BERMS WILL BE CONSTRUCTED TO CONTROL RUN OFF IN THE EVENT OF FIRES. THE EMERGENCY PREPAREDNESS MANUAL REFLECTS THAT ALL FIRE SAFETY PREVENTION REQUIREMENTS WILL BE COVERED.  
  
MOSQUITO AND RODENT CONTROL WILL BE PROVIDED ON A REGULAR BASIS BY AN OUTSIDE CONTRACTOR.  
  
HAND HELD RADIOS AND TELEPHONES WILL PROVIDE ON AND OFF SITE COMMUNICATION.
  
3. EMERGENCY PREPAREDNESS MANUAL -- SEE SHEET 2 OF 2
  
4. FIRE SAFETY SURVEY -- TO BE HANDLED BY THE COUNTY
  
5. TIRES WILL BE SHREDDED USING A PORTABLE COLUMBUS MCKINNON TIRE SHREDDER CAPABLE OF PROCESSING 1,500 TIRES PER HOUR INTO 2" BY 2" CHIPS. THE CHIPS WILL BE REMOVED FROM THE TIRE STORAGE AREA USING SCRAPERS AND FRONT END LOADERS ON A REGULAR BASIS AND WILL BE USED AS EITHER ROADBED FOR INTERIOR ROADS OR AS DAILY COVER.

SOUTHEAST LANDFILL  
TIRE STORAGE/PROCESSING AREA

1. IN EVENT OF A FIRE OR OTHER EMERGENCY, THE FOLLOWING PERSONS/AGENCIES WILL BE CONTACTED:

HILLSBOROUGH COUNTY FIRE DEPARTMENT  
PHONE: 911

MR. KIM FORD  
DEPARTMENT OF ENVIRONMENTAL REGULATION  
7601 HWY 301 N.  
TAMPA, FLORIDA 33601  
PHONE: (813)985-7402

HILLSBOROUGH COUNTY  
ENVIRONMENTAL PROTECTION COMMITTEE  
1900 9TH AVENUE  
TAMPA, FLORIDA 33605  
PHONE: (813)272-5960

WASTE MANAGEMENT PERSONNEL TO BE CONTACTED:

MR. HARVEY BUSH: (305)771-9850  
MR. TOM NELSON: (813)634-9203  
MR. GREG WALK: (813)634-9203  
MR. PHIL TOUHY: (305)974-7500

2. THE TIRE STORAGE/PROCESSING FACILITY IS LOCATED AT A CLASS I SANITARY LANDFILL, SOUTHEAST LANDFILL, WHICH IS FULLY EQUIPED WITH BULLDOZERS, FRONT END LOADERS, SCRAPERS, AND OTHER SUCH EQUIPMENT AVAILABLE AT ALL TIMES FOR ANY EMERGENCY. THERE ARE ALSO SEVERAL STOCKPILES OF DIRT ON SITE, SOME ARE WITHIN 100 FEET OF THE TIRE STORAGE/PROCESSING AREA, FOR USE OF SMOTHERING A FIRE IF ONE OCCURS.
3. IN EVENT OF A FIRE, THE FOLLOWING PROCEDURES WILL BE IMMEDIATELY IMPLEMENTED:
- A) NOTIFY THE PERSONS/AGENCIES LISTED IN PART 1.
  - B) REINFORCE THE AREA WITH DIRT BERMS.
  - C) EXTINGUISH THE FIRE WITH ON SITE EQUIPMENT AND STOCKPILES USING FIRE SAFETY PROCEDURES FOR PERSONNEL.
  - D) A SPECIAL AND/OR HAZARDOUS WASTE CONTRACTOR WILL BE CONTACTED FOR CLEANUP AND DISPOSAL OF ANY RESIDUE GENERATED BY THE FIRE.
4. WITHIN TWO WEEKS OF THE EMERGENCY, A WRITTEN REPORT DESCRIBING THE EVENT WILL BE SENT TO THE DEPARTMENT OF ENVIRONMENTAL REGULATION AND TO THE HILLSBOROUGH COUNTY ENVIRONMENTAL PROTECTION COMMITTEE AS A FOLLOWUP PROCEDURE. THE REPORT SHALL INCLUDE HOW OR WHY THE EMERGENCY OCCURED, THE ACTIONS TAKEN TO REMEDIATE THE PROBLEM, AND A REVIEW OF THE SUCCESS OR FAILURE OF THE ACTIONS.

