



Department of Environmental Protection

DEP Form # 62-701 500(23)
 Waste Tire Processing Facility
 Form Title Permit Application
 Effective Date 3/22/00
 DEP Application No. 136808-002
 Mailed to DEP
 Southwest District Tampa

Waste Tire Processing Facility Permit Application

Permit No. 136808-002-WT

Renewal Modification Existing unpermitted facility Proposed new facility

Part I-General Information:

WACS 53122

Permit Authorization

Fac. Type WTPF (710)
SUBJ. Permit Applic.

A. Applicant Information: DocType: WT Auth Related

1. Applicant Name: Global Tire Recycling of Sumter County, Inc.

2. Applicant Street Address: 1201 Industrial Drive

3. City: Wildwood County: Sumter Zip: 34785

4. Applicant Mailing Address: Same

5. City: _____ County: _____ Zip: _____

6. Contact person: Brian Fifer Phone: (852) 330-2213 FEID No: 65-0663701

7. Have any enforcement actions been taken by the Department against the applicant relating to the operation of any solid waste management facility in this state? This includes any Complaint, Notice of Violation, or revocation of a permit or registration, as well as any Consent Order in which a violation of Department rules is admitted. It does not include a Warning Letter, Warning Notice, Notice of Noncompliance, or other similar document which does not constitute agency action.
Yes No If yes, attach a history and description of the enforcement actions.

B. Facility Information:

1. Facility Name: Global Tire Recycling of Sumter County, Inc.

2. Facility Street Address (Main Entrance): 1201 Industrial Drive

3. City: Wildwood County: Sumter Zip: 34785

4. Facility Mailing Address: Same

5. City: _____ State: _____ Zip: _____

6. Contact Person: R. Brian Fifer, Pres. Phone: (352) 330-2213

7. Facility Location Coordinates:

Section: 7 Township: 19S Range: 23E

Latitude: 28° 51' 09" Longitude: 82° 02' 55"

8. Anticipated date for starting construction Nov. 1997 and for completion of construction Sept 1998

9. Anticipated date for receipt of tires Sept. 1998 and for start of processing Oct. 1998

Mail completed form to appropriate district office listed below

Northwest District
160 Governmental Center
Pensacola, FL 32501-6794
850-595-8360

Northeast District
7828 Baymeadows Way, Ste. 200 B
Jacksonville, FL 32256-7890
904-448-4300

Central District
3319 Maguire Blvd., Ste. 232
Orlando, FL 32803-3767
407-894-7855

Southwest District
3804 Coconut Palm Dr.
Tampa, FL 33619
813-744-6100

South District
2296 Victoria Ave., Ste. 364
Fort Myers, FL 33902-2549
941-332-0875

Southeast District
400 North Congress Ave.
West Palm Beach, FL 33401
601-681-6600

C. Land Owner Information (if different from applicant):

1. Owner's name: Same as Applicant
2. Land owner's mailing address: _____
3. City: _____ State: _____ Zip: _____
4. Authorized Agent: _____ Agent's phone () _____
5. Current lease expires: _____

D. Facility Operator Information (if different from applicant):

1. Operator's name: Same as Applicant
2. Operator's mailing address: _____
3. City: _____ State: _____ Zip: _____
4. Contact person: _____ Phone: () _____

E. Preparer of Application:

1. Name of person preparing application: R. Brian fifer, President
2. Mailing address: 419 SW 31 Road
3. City: Miami State: FL Zip: 33129
4. Phone: (305) 856-3390
5. Affiliation with facility: President & C.E.O.

Part II-Operations:

A. Facility type (check appropriate box):

- Waste tire processing facility.
- Waste tire processing facility with on-site disposal of processed tires or processing residuals.
See Attachment _____
- Waste tire processing facility with on-site consumption of waste tires or processing residuals.
See Attachment F
- Permitted solid waste management facility modification to allow waste tire site and processing.

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

- Shredder Cutter Chopper Incinerator only Incinerator with energy recovery
 Pyrolysis Supplemental fuel user Other, explain Shredding, chopping & grinding
opn. to process waste tires into fine mesh crumb rubber.

C. Storage: Indicate the maximum quantities of whole waste tires, processed waste tires, and processing residuals, expressed in tons, to be stored at the facility, in accordance with Rule 62-711.530(2), F.A.C.

| | Outdoor Storage(tons) | Outdoor Storage (sq.ft) | Indoor Storage (tons) | Indoor Storage (sq.ft) | Total Storage (tons) |
|-----------------------|-----------------------|-------------------------|-----------------------|------------------------|----------------------|
| Whole waste tires: | <u>190</u> | <u>10,222</u> | <u>7</u> | <u>400</u> | <u>197</u> |
| Processed tires: | <u>1,206</u> | <u>14,700</u> | <u>459</u> | <u>6,066</u> | <u>1,665</u> |
| Processing residuals: | <u>160</u> | <u>1,920</u> | <u>-</u> | <u>-</u> | <u>160</u> |
| TOTALS: | <u>1,556</u> | <u>26,842</u> | <u>466</u> | <u>6,466</u> | <u>2,022</u> |

Global Tire Recycling of Sumter County, Inc.

ADDENDUM TO WASTE TIRE PROCESSING PERMIT APPLICATION

I. Consent Order – Attached is a Consent Order dated February 27, 2001. The settlement of violations amount of \$16,500.00 was paid and the matter was closed on September 28, 2001.

II. Proof of Publication – Proof of Publication of a Public Notice of application is attached.

Part III. Attachments

A. FACILITY DESIGN

- 1. A Topographical or Section Map** – Attached
- 2. A Plot Plan of the Facility** – Attached

B. FACILITY OPERATION

- 1. A Description of the Facility's Operation, Process and Products, Including How Tires Will Be Received and Stored.**
See Global's confidential Process Description as amended and submitted as Attachment H to the previous Application.

- 2. A Description of the Equipment Used for Processing Tires. This Description Shall Include the Make, Model and Hourly Capacity of Each Piece of Equipment.**
See previously submitted Attachment I Production Equipment Book and Attachment C System Layout Drawing as part of the previous Application.

- 3. Description of the Waste From the Process, the Amount of Waste Expected and How and Where This Waste Will Be Disposed Of.**

In 2002, Global processed about 32 million pounds of tires (1.6 million tires/PTE's). In so doing, it generated about 34% residuals/scrap, or about 10,880,000 pounds. This was comprised of about 22% wire/rubber and 12% fiber/rubber. These residuals will continue to be hauled off in dumpsters by Waste Management to its Bayside Landfill in Ocala.

4. Statement of the Maximum Daily Throughput and the Planned Daily and Annual Throughput.

a.) Maximum Daily Throughput

The maximum daily throughput of the system is 4,000 pounds of crumb rubber finished product per hour. The system thereby is capable of producing 96,000 lbs. (48 tons) of crumb rubber finished product per 24 hour day. With a 34% scrap rate of wire/rubber and fiber/rubber, production of crumb rubber at this rate would require that 73 tons, or 7,300 whole passenger tire equivalents (PTE's), be processed by the system in a 24 hour day. Thus, 7,300 PTE's is the maximum daily throughput of Global's production system.

b.) Planned Daily and Annual Throughput

In 2002, Global Tire Recycling processed approximately 32.8 million pounds of whole tires (1.64 million PTE's) into approximately 21 million pounds of crumb rubber. Over the next two years, Global expects to increase its production about 20%. This would equate to 39.36 million pounds of waste tires processed each year (1.968 million PTE's) into about 26 million pounds of crumb rubber. On a daily basis, that would equate to 109,000 lbs. of waste tires (5,450 PTE's) into 72,160 lbs. of finished product crumb rubber and 36,840 lbs. of residual/scrap.

This section #5 is the same as in the previous Application, except where noted as "Updated".

5. A DESCRIPTION OF HOW THE OPERATOR WILL MAINTAIN COMPLIANCE WITH EACH OF THE STORAGE REQUIREMENTS OF RULE 62-711.540 F.A.C.

(1) All waste tire sites, collection centers, processing facilities, and disposal facilities which store tires shall comply with the following technical and operational standards:

(a) If the site receives waste tires from the public, a sign shall be posted at the entrance of the site stating operating hours, cost of disposal and site rules.

Global's Waste Tire Processing Facility will not receive waste tires from the general public. Only Florida DEP registered waste tire collectors or holders of Florida waste tire processing permits will be allowed to dispose of tires at Global's plant.

(b) No operations involving the use of open flames shall be conducted within 25 feet of a waste tire pile. (Updated)

No open flames will be allowed within 25 feet of any waste tire pile, and signs will be posted within and outside the plant near the live floor hoppers to remind all employees and visitors of this prohibition. Global's machine shop, where welding equipment will be stored, occupies an area in the southwest section of the plant. Welding does not take place there, as all scheduled welding is performed by a welding shop that is next door (Morris Welding). Should any welding or emergency repair procedures require on site welding on a piece of equipment that is too large to move outside or take next door, e.g., repair of the trailer dumper, all waste tires, tires in process or flammable residuals will be removed to an area 25 feet beyond the open flame.

- (c) **An attendant shall be present when the site is open for business if the site receives waste tires from the public.**

No waste tires will be received from the general public, as indicated in Section B5(1)(a), above. Nevertheless, an attendant or guard will be present at the gatehouse or elsewhere at the plant, not only during business hours, but at all other times as well.

- (d) **Fire protection services for the site shall be assured through notification to local fire protection authorities. A fire safety survey shall be conducted at least annually and the survey report shall be made part of the next quarterly report.**

As a department head involved in the building permit review process, the City of Wildwood Fire Chief has reviewed the site plan and project drawings, including M-2, the production area fire protection plan and M-3, the office area fire protection plan. The Fire Chief made no comments or suggestions during this review, indicating that he approved Global's plans of fire safety concerns.

A fire safety survey/inspection will be conducted prior to issuance of the Certificate of Occupancy and will be submitted to the Department with Global's first quarterly report.

- (e) **The operator of the site shall prepare and keep at the site an Emergency Preparedness Manual. A copy of the current Manual shall be kept at an off-site location designated by the operator. The Manual shall be updated at least once a year and upon changes in the operations at the site. (Updated)**

A copy of the Emergency Preparedness Manual is on file with the Department as Rev. 8/27/99 and updated pages on 11/20/02. Copies of the current manual will be kept in the general manager's office and the foreman's office at the plant, and with R. Brian Fifer, President and CEO. Global Tire Recycling, 419 SW 31 Road, Miami, FL 33129.

- (f) **The operator of the site shall immediately notify the Department in the event of a fire or other emergency which poses an unanticipated threat to the public health or the environment. Within two weeks of any emergency, the operator of the site shall submit to the Department a written report on the emergency. This report shall describe the origins of the emergency, the actions that were taken to deal with the emergency, the results of the actions that were taken, and an analysis of the success or failure of the actions.**

Global will immediately notify the Department's Emergency Response Contact at 1-800-320-0519 in such an event and will submit its written report in a timely manner.

- (g) **The operator of the site shall maintain records of the quantity of waste tires received at the site, stored at the site, and shipped from the site.**

Global will comply with this requirement and will develop record keeping systems which incorporate the information required by F.A.C., 62-711.530(4) and (5) and by the Quarterly and Annual Waste Tire Processing Facility Reports.

- (h) **If the operator of the site is not the owner of the property, the operator shall obtain written authorization to operate the facility from the owner of the property. (Updated)**

The operator of the site and owner of the property are the same: Global Tire Recycling of Sumter County, Inc. A copy of Global's Warranty Deed was submitted as Attachment J – Warranty Deed dated 6-19-97 by the City of Wildwood from Roger Rice and recorded with Sumter County as document No. 312935.

- (i) **Communication equipment shall be maintained at the waste tire site to assure that the site operator can contact local fire protection authorities in case of a fire.**

Global's facility will be part of the local telephone system and cellular telephones will also be available at the plant office.

- (j) **The owner or operator shall provide for control of mosquitoes and rodents so as to protect the public health and welfare. (Updated)**

By only having exposed tires in Moving Zones, no tires with potential water inside of them will remain outdoors in the open long enough to be a

potential breeding ground for mosquitoes. No food or organic matter will be permitted in or near the Moving Zones that might attract vermin.

- (k) **An approach and access road to the waste tire site shall be kept passable for any motor vehicle at all times.**

Global will keep all roadways within its property passable for motor vehicles and will not allow the use of Industrial Drive as a staging or waiting area.

- (2) **All waste tire sites, collection centers, processing facilities, and disposal facilities which store waste tires indoors must comply with the following additional technical and operational standards:**

- a. **Tire piles may not be more than 50 feet in width, except that piles along a wall shall not be more than 25 feet in width.**

(Updated)

Global has provided for one indoor tire storage area: an area north of the Grizzly granulator where a small number of good used tires culled for resale will be temporarily stored until they are transferred to an outdoor trailer. This area never will exceed 20 feet in width.

- b. **The width of main aisles between the tire piles shall not be less than 8 feet. (Updated)**

There is only one indoor storage area (location "E" on the Site Plan Storage Area drawing that is attached to this application). It is over 50 feet from enclosed storage area H1 for processed rubber.

- c. **The clearance from the top of storage to sprinkler deflectors or roof structures shall not be less than 3 feet. (Updated)**

The maximum height of Global's indoor tire storage area is 5 feet. The eave height is 21 feet on the west side of the production area and 24 feet on the east side. The sprinkler system piping and sprinkler deflectors are set higher than 18 feet from the finished floor.

- d. **The clearance in any direction from unit heaters, radiant space heaters, duct furnaces and flues shall not be less than 3 feet.**

The production area will not be heated. Ventilation will be supplied by fresh air intake louvers and exhaust fans. If it becomes

necessary to provide radiant space heaters during cold weather, they will be placed more than 3 feet from any storage area or other flammable material.

[e., f., g. Fire walls and sprinklers.] (Updated)

An automatic sprinkler system was designed and is being installed in compliance with "The Standard for Storage of Rubber Tires, N.F.P.A. 231D, and specifically in accordance with N.F.P.A. #13 Standards, all materials conforming to specifications set forth in Chapter 2, N.F.P.A. #13 edition. The Production Area Fire Protection Plan (No. M-2) and the Office Fire Protection Plan (No. M-3) both dated 9-16-97 by Riddle Consulting Engineers were previously provided as part of Attachment B to the Permit Application dated 2-12-98.

(3) All waste tire sites, collection centers and any processing or disposal facilities which store tires outdoors must comply with the following additional technical and operations standards:

- a. **A waste tire site shall not be constructed, maintained or operated in or within 200 feet of any natural or artificial body of water, including wetlands within the jurisdiction of the Department, except bodies of water contained completely within the property boundaries of the facility which do not ordinarily discharge from the site to surface waters. A person may maintain a tire site within the 200-foot setback area upon demonstration to the Department, as part of a permit application or modification, that permanent control methods for residuals will result in compliance with water quality standards in Chapters 62-330,FAC. as applicable. The site shall be managed in such a way as to divert storm water or floodwater around and away from the storage piles. This section shall not apply to artificial reefs constructed pursuant to Department permit. (Updated)**

Global's site, which is in the City of Wildwood Willard Peebles Industrial Park, does not lie within 200 feet of any natural or artificial body of water, including wetlands. Rodney K. Rogers, a Florida registered professional surveyor and mapper with Robert L. Rogers Engineering Co., Inc. of Ocala, has certified in his letter dated February 25, 2003, submitted with this application as an attachment, that he has inspected the surrounding area for wetlands, water bodies and potable water wells and that there are no such areas within 500 feet of Global's proposed outdoor temporary chip storage area. Clearly, there are no such areas within 200 feet of the site.

- b. **An outdoor waste tire pile shall have no greater than the following maximum dimensions: (Updated)**

1. **Width: 50 feet**
2. **Area: 10,000 square feet; and**
3. **Height: 15 feet**

All Chip Piles, Moving Zones and Trailer Storage locations are not more than 50' wide and are less than 10,000 SF per Site Plan Storage Locations drawing (attached).

- c. **A 50-foot wide fire lane shall be placed around the perimeter of each outdoor waste tire pile. Access to the fire lane for emergency vehicles must be unobstructed at all times. (Updated)**

Global does not plan to establish any outdoor waste tire "storage" piles, as such. It will be maintaining Moving Zones "C" such that tire will flow through them on a regular basis and be processed. A 50-foot wide fire lane will be maintained around the perimeter of each Moving Zone that has tires on the ground to ensure unobstructed access by emergency vehicles. The closed storage trailers will be spaced so that any fire in one trailer will be confined to that trailer. The temporary tire chip storage pad is constructed on pavement and open to the pavement on one side.

- d. **Access to the site shall be controlled through the use of fences, gates, natural barriers or other means.**

The site will be surrounded by heavy chain link fencing surmounted by three strands of barbed wire. All persons entering the plant, employees as well as tire haulers and other business visitors, will be observed by the attendant at the guardshed near the weigh scales. A security guard will be present at all times, 365 days per year. The guard will open and close the gates after business hours.

- e. **The site shall be bermed or given other adequate protection if necessary to keep liquid runoff from a potential waste tire fire from entering water bodies. (Updated)**

The site grading plan (A Site Plan, sheet 4 of 5, dated 8-27-97 by Robert I. Rogers Engineering Co., Inc. previously filed with FDEP as part of Attachment D to the Waste Tire Processing Permit Application dated 2-12-98) indicates that outside elevations are such as to direct liquid runoff from any potential waste tire fire away from the perimeters of the site and away from any water body.

- f. The waste tire site shall be kept free of grass, underbrush, and other potentially flammable vegetation at all times.**

Production and storage areas are on, or surrounded by, concrete or asphalt pavement. Other landscaped areas will be maintained so as to minimize the risk of fire.

- (4) For all waste tire sites, collection centers, processing facilities and disposal facilities which store processed waste tires, the temperature of any above-ground piles of compacted, processed tires more than eight feet high shall be monitored and may not exceed 300 degrees Fahrenheit. Temperature control measures shall be instituted so that pile temperatures do not exceed 300 degrees Fahrenheit. Temperature monitoring and controls are not required for processed tires disposed of in permitted landfills.**

The level of tire chips stored in Global's temporary chip storage will be maintained at a level of 4 to 5 feet and will never exceed 8 feet in height.

- (5) Any residuals from waste tire processing must be managed so as to be contained on-site, and must be controlled and disposed of in a permitted solid waste management facility or properly recycled. (Updated)**

All residuals are contained in 30 CY dumpsters and are hauled off by Waste Management to their Bayside Landfill in Ocala.

6. A Copy of the Emergency Preparedness Manual for the Facility With a Statement of the On-Site and Off-Site Locations Where That Manual Will Be Maintained.

The Emergency Preparedness Manual is on file with the Department as Rev. 8/27/99 and updated pages on 11/20/02.

7. A Copy of the Fire Safety Survey.

Copies of Global's Annual Fire Safety Surveys are on file with the Department, with the most recent one being transmitted on 11/20/02.

8. A Description of How 75% of the Annual Accumulation of Waste Tires will Be Removed for Disposal or Recycling.

For the past four years of full-scale production, Global has had 100% of its annual accumulation of waste tires "removed" via processing them into recycled saleable crumb rubber and residual. The residuals have been disposed by Waste Management to their Bayside Landfill in Ocala. This will continue to be the process for disposing of waste tires.

C. COMPLETED CLOSING PLAN FOR THE FACILITY AS REQUIRED BY RULE 62-711.700(2) AND (3), F.A.C.

In closing the facility, Global will stop access to the site; post a notice indicating the site is closed and the location of the nearest waste tire processing facility where waste tires can be deposited; notify the Department and Sumter County of the closing; remove all waste tires, processed tires and residuals to a waste tire processing facility, solid waste management facility authorized to accept waste tires or a legitimate user of processed tires; remove any solid waste to a permitted solid waste management facility and notify the Department when the closure is complete.

The Department will be given at least 60 days written notice prior to closure. Such notification will give the Department the opportunity to inspect the facility and determine whether any other procedures shall be followed as part of the closure. Any such directives shall be followed. No waste tires will be accepted within 15 days prior to the date that closure will begin. Global will complete closure on the site in accordance with approved closure plan with 180 days after receiving the final quantity of waste tires. Global must provide proof of financial assurance that all expenses

associated with the closure plan have been identified and prepaid. The following assumptions underly Global's closing plan and financial assurances:

1. Whole Tires

There will be a maximum of 190 tons of whole tires on the premises in trailers, moving zone piles and hoppers. They will be removed by an agreement with Recovery Technologies Group, Inc. at a cost of \$30/ton. This letter agreement dated February 19, 2003 is attached.

2. Processed Tires

There will be a maximum of 1,206 tons of processed tires, which consists mainly of saleable crumb rubber finished products. If they cannot be sold, they will be removed by Recovery Technologies Group, Inc. for \$30/ton as part of the above agreement.

3. Residuals

There will be a maximum of 11, 30 CY equivalent dumpsters that will contain metal/rubber and fiber/rubber residual material. They will be removed by Waste Management at a cost of \$244.00 each. There will be one 30 CY dumpster of office waste that will be removed by WM for \$566.00 per an Agreement dated February 20, 2003 that is attached.

D. FINANCIAL ASSURANCE CALCULATIONS

The following financial assurance calculations summarize and are based upon the assumptions and calculations that are set forth in Global's closing Plan directly preceding this section:

| | <u>Amount</u> |
|--|---------------|
| Whole and processed tires: 1,862 tons @ \$30/ton | \$55,860 |
| Residuals: 11, 30 CY dumpsters @ \$244 ea. | 2,684 |
| Office Waste: 1, 30 CY dumpster @ \$566 ea. | <u>566</u> |
| Total Financial Assurance Calculations | \$59,110 |

Global's existing Irrevocable Standby Letter of Credit of \$75,000 is more than adequate to support these financial assurance calculations.

E. LAND OWNER (Updated)

Not applicable - - same as applicant.

Refer to Attachment J – Warranty Deed dated 6-19-97 by the City of Wildwood from Roger Rice and recorded with Sumter County as document No. 312935.

F. WASTE TIRES CONSUMED AT FACILITY – OTHER PERMITS

1. Environmental Resource Permit

Permit number 60-0126615-001, issued by the Department of Environmental Protection on September 26, 1997.

2. Air Quality Permit

Permit number 1190028-002-AC, issued by the Department of Environmental Protection on October 14, 1999.

G. PERMIT FEE

The permit fee in the amount of \$1,250.00 is enclosed.