

Permittee:

Tire Centers LLC
5700 Commonwealth Avenue
Jacksonville, FL 32205

Permit No.: 0310489-004-AO**Facility ID No.:** 0310489**SIC No.:** 75**Project:** Tire Retreading Plant

This permit is for the operation of a tire retreading plant. This facility is located at 5700 Commonwealth Ave., Jacksonville, Duval County, FL 32205; UTM Coordinates: Zone 17, 428.4 km East and 3356.0 km North; Latitude: 30° 20' 09" North and Longitude: 81° 44' 42" West.

This permit is issued under the provisions of Chapter 403, Florida Statutes (FS) and Florida Administrative Code (FAC) Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296, and 62-297. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the Environmental Resource Management Department, Environmental Quality Division (Department) in accordance with the terms and conditions of this permit.

Renewal Application Due Date:**September 30, 2010****Expiration Date:****November 30, 2010**

Environmental Resource Management Department
Environmental Quality Division

Robert Steven Pace, P.E., Manager
Air Quality Branch

RSPDH/rdo

Section I. Facility Information

Subsection A. Facility/Project Description

This permit is for the operation of a tire retreading plant and associated equipment. The operation consists of two (2) tire grinding machines, dissolution application spray booth, tire curing process (3 autoclaves), wheel refurbishing process (shot blast and powder coating application), and a 100 horsepower (3.35 MMBTU/hr) natural gas fired boiler.

The facility is a minor source of air pollution because the potential emissions of regulated air pollutants are less than 100 tons per year and the potential emissions of Hazardous Air Pollutants (HAP) are less than 10 tons per year for a single HAP and less than 25 tons per year for total HAPs pursuant to Chapter 62-210, FAC, and Rule 2.301, JEPB.

Subsection B. Summary of Emission Unit (EU) ID Nos. and Brief Descriptions

<u>EU No.</u>	<u>EU Description</u>
001	Two Tire Grinding Machines
002	Dissolution Application Spray Booth
003	Tire Curing Process

Subsection C. Relevant documents

Permit No.: 0310489-003-AO

Air operating permit application received October 10, 2005

Section II. Facility Wide Conditions

Subsection A. General Conditions

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific process and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

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6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
 - a. Have access to and copy any records that must be kept under conditions of the permit;
 - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.Reasonable time may depend on the nature of the concern being investigated.
8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
 - a. A description of and cause of noncompliance; and
 - b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or revocation of this permit.
9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
11. This permit is transferable only upon Department approval in accordance with Rules 62-4.120 and 62-730.300, FAC, as applicable. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department.
12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 - () Determination of Prevention of Significant Deterioration (PSD)
 - () Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)
 - () Compliance with New Source Performance Standards
14. The permittee shall comply with the following:
 - a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

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- b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by this permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
 - c. Records of monitoring information shall include:
 1. The date, exact place, and time of sampling or measurements;
 2. The person responsible for performing the sampling or measurements;
 3. The date(s) analyses were performed;
 4. The person responsible for performing the analyses;
 5. The analytical techniques or methods used;
 6. The results of such analyses.
15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly. [Rule 62-4.160, FAC, and Rule 2.1301, Jacksonville Environmental Protection Board (JEPB)]

Subsection B. Specific Conditions

1. Permittee shall notify the Department fifteen (15) days prior to EU testing. [Rule 62-297.310(7)(a)(9), FAC, and Rule 2.1101, JEPB]
2. Copies of the test report(s) shall be submitted to the Department within forty-five (45) days of completion of testing. [Rule 62-297.310(8)(b), FAC, and Rule 2.1101, JEPB]
3. Testing of emissions shall be conducted with the EU operating at permitted capacity. Permitted capacity is defined as 90-100 percent of the maximum operating rate allowed by the permit. If it is impracticable to test at permitted capacity, then EU may be tested at less than capacity; in this case subsequent EU operation is limited to 110 percent of the test load until a new test is conducted. Once the EU is so limited, then operation at higher capacities is allowed for no more than 15 consecutive days for the purposes of additional compliance testing to regain the permitted capacity in the permit. [Rule 62-297.310(2), FAC, and Rule 2.1101, JEPB]
4. Any revision(s) to a permit (and application) shall be submitted to and approved by the Department prior to implementing. [Rule 62-4.080(2), FAC, and Rule 2.1301, JEPB]
5. Stack sampling ports and platforms shall not be required.
6. Permittee shall submit an annual operation report to the Department for this (these) emission unit(s) on the form(s) supplied for each calendar year on or before March 1. [Rule 62-210.370(3), FAC, and Rule 2.301, JEPB]
7. The permittee shall apply for a renewal operation permit sixty (60) days prior to the expiration date of this permit. [Rule 62-4.090, FAC, and Rule 2.1301, JEPB]
8. General Pollutant Emission Limiting Standards. Objectionable Odor Prohibited. The permittee shall not cause, suffer, allow, or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. [Rule 62-296.320(2), FAC, and Rule 2.1001, JEPB]

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9. The facility shall be subject to City of Jacksonville Ordinance Code, Title X, Chapter 360 [Environmental Regulation], Chapter 362 [Air and Water Pollution], Chapter 376 [Odor Control], and JEPB Rule 1 [Final Rules with Respect to Organization, Procedure, and Practice].
10. The facility shall be subject to JEPB Rule 2, Part Nos. I through III, and Part Nos. IX through XIII.
11. Maximum facility wide emissions shall be limited to less than 5 lbs/hr and less than 15 tons/yr in order to maintain exemption from Particulate Matter (PM) Reasonably Available Control Technology regulations.
[Rule 62-296.700(2)(a), FAC, and Rule 2.1001, JEPB]
12. The permittee shall submit all compliance related notifications and reports required of this permit to:

Environmental Resource Management Department
Environmental Quality Division
117 West Duval Street, Suite 225
Jacksonville, FL 32202
Telephone: (904) 630-4900
Fax: (904) 630-3638

Section III. Emission Units and Conditions

Emission Unit No. 001- Tire Grinding

Emission Unit Description: This emission unit consists of two (2) grinding machines, which remove tire tread to prepare the surface of used tires for the retreading process. Rubber PM grinded off the tires is collected by vacuum systems attached to the two grinding machines and is transported via a duct to two cyclone separators. Collected rubber material is sent to a truck for storage and disposal. Process air is discharged to the atmosphere.

Essential Potential to Emit (PTE) Parameters

1. The maximum process rate to the tire grinding machines shall be limited to 3906.25 pounds per hour (31.25 tires).
[Rule 62-210.200(202), FAC, and Rule 2.301, JEPB]
2. This EU shall be allowed to operate continuously; i.e.: 8760 hours per year.
[Rule 62-210.200(202), FAC, and Rule 2.301, JEPB]

Emission Limitations and Standards

3. PM emissions from the two grinding machines shall be limited based upon the process weight table and the formula $E = 3.59 * P^{0.62}$, where E = lbs/hr PM emissions and P = process weight in tons. Please note that the process weight equation applies up to but not including the maximum allowable emissions of <5 lbs/hr and <15 tons/yr in order to maintain exemption from the PM Reasonably Available Control Technology regulations.
[Rule 62-296.320(4)(a)2., Rule 62-296.700(2)(a), FAC, and Rule 2.1001, JEPB]
4. VE from each cyclone shall be limited to less than 20% opacity.
[Rule 62-296.320(4)(b)1., and Rule 2.1001, JEPB]

Test Methods and Procedures

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5. Testing for demonstration of compliance shall be performed in accordance with EPA Reference Method 17 (as described in 40 CFR 60, Appendix A), for the determination of the PM emissions rate concentration. An acetone wash and average stack temperature below 275 degrees Fahrenheit is required. EPA Method 5 with an acetone wash may be used as an alternate method. PM testing shall be conducted upon request of the Department.
[Rule 62-296.320(4)(a)(3), FAC, and Rule 2.1001, JEPB]
6. Testing for demonstration of compliance shall be performed on each cyclone annually, from the date of December 1, 2005, in accordance with EPA Reference Method 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
[Rule 62-296.320(4)(b) 4., FAC, and Rule 2.1001, JEPB]
- 7 The permittee shall record the number of tires grinded on a daily basis. These records shall be maintained for a minimum period of three years and shall be made available to the Department upon request.
[Rule 62-4.160, FAC, and Rule 2.1301, JEPB]

Emission Unit No. 002 – Dissolution Application Spray Booth

Emission Unit Description: This emission unit is a spray booth where a heptane-based adhesive is applied to the grinded tire carcass. A new tire tread is then applied to the base surface. VOC emissions are exhausted through a stack

Essential Potential to Emit (PTE) Parameters

1. The maximum application rate shall be limited to 247.5 pounds per day of dissolution (rubber and heptane solution).
[Rule 62-210.200(202), FAC, and Rule 2.301, JEPB]
2. This EU shall be allowed to operate continuously; i.e.: 8760 hours per year.
[Rule 62-210.200(202), FAC, and Rule 2.301, JEPB]

Emission Limitations and Standards

3. VE from the adhesive cement spray booth shall be limited to less than 20% opacity.
[Rule 62-296.320(4)(b)1, FAC and Rule 2.1001, JEPB]
4. General Pollutant Emission Limiting Standards Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions.
The permittee shall allow no person to store, pump, handle, process, load, unload, or use in any process or installation, volatile organic compounds (VOC) or organic solvents (OS) without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department.
[Rule 62-296.320(1)(a), FAC, and Rule 2.1001, JEPB]

Test Methods and Procedures

5. Testing for demonstration of compliance, upon request, shall be performed in accordance with EPA Reference Method 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
[Rule 62-296.320(4)(b) 4., FAC, and Rule 2.1001, JEPB]

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Recordkeeping and Reporting

6. Records of the daily weight of adhesives and VOC content of the adhesives applied shall be recorded and maintained for a minimum period of three (3) years and shall be made available to the Department upon request.
[Rules 62-4.070(3), and 62-4.160 FAC, and Rule 2.1301, JEPB]

Unregulated Emission Unit

The following emission unit is not exempt from permitting and it is not subject to a unit specific regulation.

Emission Unit No. 003-Tire Curing Process

Emission Unit Description: This emission unit consists of three (3) autoclaves for the curing of tires after the adhesive and new rubber has been applied. Emissions are vented through two roof exhaust vents.

Exempt Emission Activities

The following activities are exempt from permitting in accordance with Rule 62-210.300(3)(a) and (b), FAC, and Rule 2.301, JEPB.

100 horsepower natural gas fired boiler

Enclosed shot blast unit

Wheel rim powder coating operation

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to S.120.52(7), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Clerk

Date

P.E. Certification Statement

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Tire Centers LLC

Permit No.: 0310489-004-AO
Facility ID No.: 0310489

Project type: Tire Retreading Plant

I HEREBY CERTIFY that the engineering features described in the above referenced application and subject to the proposed permit conditions provide reasonable assurance of compliance with applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-4 and 62-204 through 62-297. However, I have not evaluated and I do not certify aspects of the proposal outside of my area of expertise (including but not limited to the toxicological, electrical, mechanical, structural, hydrological, and geological features).

Richard L. Robinson, P.E.
Registration Number: 0046688

Date

Permitting Authority:
Environmental Resource Management Department
Environmental Quality Division
117 W. Duval St., Suite 225
Jacksonville, FL 32202
Telephone: (904) 630-4900
Fax: (904) 630-3638