NEIGHBORHOODS DEPARTMENT

Jacksonville
Where Florida Begins.

Permittee:
Duval Asphalt Products, Inc.
7544 Philips Highway
Jacksonville, FL 32256-6810

Permit Number: 7775108-007-AO
Facility ID Number: 7775108
SIC Number: 2951
Project: Drum Mix Asphalt Plant

This permit is for the operation of a drum mix asphalt plant and a nonmetallic mineral processing plant (also known as an asphalt crushing operation). This facility is located at 6820 West 12th Street, Jacksonville, Duval County, FL 32254-1545; UTM Coordinates: Zone 17, 427.00 km East and 3357.70 km North; Latitude: 30° 20' 57" North and Longitude: 81° 45' 34" West.

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-204, 62-210, 62-296, and 62-297 Florida Administrative Code (F.A.C.), and applicable Rules of the Jacksonville Environmental Protection Board (JEPB). The permittee is authorized to perform the work and operate the facility described in the permit application and approved drawings, plans, and other documents, attached hereto or on file with the Neighborhoods Department, Environmental Quality Division (Permitting Authority) in accordance with the terms and conditions of this permit.

Operation Permit Application Due Date: **August 1, 2015**
Expiration Date: **September 30, 2015**

Neighborhoods Department
Environmental Quality Division

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

RSP/CBJ

Section I. Facility Information

Subsection A. Facility/Project Description

This permit is for the operation of a drum mix asphalt plant and a nonmetallic mineral processing plant (also known as an asphalt crushing operation). The 400 tons per hour drum mixer plant produces hot mix asphalt. The plant processes virgin asphalt, recycled asphalt, concrete, and aggregate. The plant is fired by No. 5 fuel oil blend or natural gas. The No. 5 fuel oil blend shall conform to the on spec used oil requirements located in 40 CFR 279.

The facility is a minor source of air pollution because the potential emissions of regulated air pollutants are less than 100 tons per year pursuant to Chapter 62-210, F.A.C., and Rule 2.301, JEPB.

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

EU No.	EU Description	Control Device
001	Drum Mix Asphalt Plant	Astec Industries Baghouse Model Number RBH-67: TDB
002	Nonmetallic Mineral Processing Plant	

Subsection C. Relevant documents

Permit Nos. 7775108-006-AO
Air Operation Permit modification application received February 21, 2012

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, FS. 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), FS, 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.

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, FS. 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)
    (X) 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.
    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:

        i. The date, exact place, and time of sampling or measurements;
        ii. The person responsible for performing the sampling or measurements;
        iii. The date(s) analyses were performed;
        iv. The person responsible for performing the analyses;
        v. The analytical techniques or methods used;
        vi. 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 2.1401, JEPB]

Subsection B. Specific Conditions

1. 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 2.1101, JEPB]

2. 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 2.1401, JEPB]

3. The permittee shall apply for a renewal operation permit sixty (60) days prior to the expiration of this permit.
   [Rule 62-4.090, FAC, and Rule 2.1401, JEPB]

4. Permittee shall submit an Annual Operation Report to the Permitting Authority for this (these) emission unit(s) on the form(s) supplied for each calendar year on or before April 1.
   [Rule 62-210.370(3), FAC, and Rule 2.301, JEPB.]

5. Permittee shall notify the Department fifteen (15) days prior to EU testing.
   [Rule 62-297.310(7)(a)9., FAC, and Rule 2.1201, JEPB]

6. Copies of the test report(s) shall be filed with the Department within forty-five (45) days of completion of testing.
   [Rule 62-297.310(8)(b), FAC, and Rule 2.1201, JEPB]

7. 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, the 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 2.1201, JEPB]

8. Stack sampling facilities shall comply with the requirements of Rule 62-297.310(6), FAC, and Rule 2.1201, JEPB.

9. Control equipment shall be provided with a method of access that is safe and readily accessible.
   [Rule 62-297.310(6), FAC, and Rule 2.1201, JEPB]

10. 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].

11. The facility shall be subject to JEPB Rule 2, Part Nos. I through VII, and Part Nos. IX through XIII.

12. Operation of the asphalt batch plant is restricted to Duval County, FL. The permittee shall submit completed DEP Form 62-210.900(6), Facility Relocation Notification, to the referenced address, at least thirty (30) days prior to relocating the facility in Duval County. Additional restrictions for the operation at the site may be imposed by the Department.
    [Rule 62-210.900(6), FAC and Rule 2.301, JEPB]

13. No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter emissions from any activity, including vehicular movement; transportation of materials; construction, alteration, demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions. Reasonable precautions include the following:
    a. Paving and maintenance of roads, parking areas and yards.
    b. Application of water or chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing.
    c. Application of asphalt, water, oil, chemicals or other dust suppressants to unpaved roads, yards, open stock piles and similar activities.
    d. Removal of particulate matter from roads and other paved areas under the control of the owner or operator of the facility to prevent re-entrainment, and from buildings or work areas to prevent particulate from becoming airborne.
    e. Landscaping or planting of vegetation.
    f. Use of hoods, fans, filters, and similar equipment to contain, capture and/or vent particulate matter.
    g. Confining abrasive blasting where possible.
    h. Enclosure or covering of conveyor systems.

    [Rule 62-296.320(4)(c)., FAC, and Rule 2.1101, JEPB]

14. The permittee shall submit all compliance related notifications and reports required of this permit to:

Neighborhoods Department
Environmental Quality Division
214 North Hogan Street, Seventh Floor
Jacksonville, FL 32202
Telephone: (904) 255-7100
Fax: (904) 588-0518

Section III. Emission Units and Conditions

Emission Unit 001

Emission Unit Description: Drum Mix Asphalt Plant

Control Device: Astec Industries Baghouse Model Number RBH-67: TDB

Essential Potential to Emit (PTE) Parameters

1. The nominal volumetric flow rate for this baghouse is 39,892 dry standard cubic feet per minute (dscfm). [Rule 62-296.700 (4)(a), FAC, and Rule 2.301, JEPB]

2. This EU shall be allowed to operate a maximum of 3,000 hours per year. [Rule 62-296.700 (4)(a), FAC, and Rule 2.301, JEPB]

Emission Limitations and Standards

3. 40 CFR 60, Subpart I, Standards of Performance for Hot Mix Asphalt Facilities, and 40 CFR 60, Subpart A, General Provisions, shall apply to this emission unit.

4. Reasonably Available Control Technology (RACT) requirements including **Specific RACT Emission Limiting Standards for Stationary Emission Units** [Rule 62-296.700(3), FAC, and Rule 2.1101, JEPB]; **Maximum Allowable Emission Rates** [Rule 62-296.700(4), FAC, and Rule 2.1101, JEPB]; **Circumvention** [Rule 62-296.700(5),FAC, and Rule 2.1101, JEPB], and **Operation and Maintenance Plan** [Rule 62-296.700(6), FAC, and Rule 2.1101, JEPB] shall apply to this emission unit.

5. The maximum process rate shall be limited to 400 tons per hour and 600,000 tons per year of asphalt, aggregate and recycled asphaltic concrete (RAP). [Rule 62-296.700 (4)(a), FAC, and Rule 2.301, JEPB]

6. The maximum fuel input to the rotary drum dryer and asphalt cement heater shall not exceed 120×10^6 Btu/hr from the firing of No. 5 fuel oil blend or natural gas. [Rule 62-296.700 (4)(a), FAC, and Rule 2.301, JEPB]

7. The No. 5 fuel oil blend shall be limited to 0.5 % sulfur content by weight. The No. 5 fuel oil blend shall be limited to on-spec oil (Table I below):

TABLE I

CONSTITUENT/ PROPERTY	ALLOWABLE LEVEL
Arsenic	5 ppm maximum
Cadmium	2 ppm maximum
Chromium	10 ppm maximum
Total halogens	1,000 ppm maximum
Lead	100 ppm maximum
Flash point	100° F minimum
PCBs (Poly Chlorinated Biphenyls)	< 50 ppm maximum

[Rule 62-4.070, FAC, and Rule 2.1401, JEPB]

8. Particulate Matter (PM) emissions shall be limited to 90 mg/dscm (0.04 gr/dscf) [13.68 lbs/hr, 20.52 T/yr].
[40 CFR 60.92(a)(1), Rule 62-204.800, FAC, and Rule 2.201, JEPB]

9. Visible Emissions (VE) shall be limited to less than 20% opacity.
[40 CFR 60.92(a)(2), Rule 62-204.800, FAC, and Rule 2.201, JEPB]

Test Methods and Procedures

10. Testing for demonstration of compliance shall be performed annually from the date of October 1, 2010 in accordance with EPA Reference Method (RM) 5 (as described in 40 CFR 60, Appendix A) for the determination of the PM emissions rate concentration. The sampling time and sample volume for each test run shall be at least 60 minutes and 0.90 dscm (31.8 dscf) respectively.
[40 CFR 60.93(b)(1), Rule 62-204.800(8), FAC, and Rule 2.201, JEPB]

11. Testing for the demonstration of compliance shall be performed annually from the date of October 1, 2010 in accordance with EPA RM 9 (as described in 40 CFR, Appendix A), and the procedures in 40 CFR 60.11, for the visual determination of opacity. Testing shall be conducted for a minimum period of 30 minutes and shall be conducted concurrently with the PM testing.
[40 CFR 60.11, Rule 297.310(4)(a)2., Rule 62-204.800(8), FAC, Rule 2.1201, JEPB, and Rule 2.201, JEPB]

12. Fuel oil sulfur content shall be determined for each shipment received. Fuel oil sulfur content may be determined through certification by the fuel oil supplier or an alternate determination may be through the use of ASTM Test Method D 2622-94 SULFUR IN PETROLEUM PRODUCTS (X-RAY SPECTROGRAPHIC METHOD). Records shall be maintained for a minimum period of two (2) years and shall be provided to the Department upon request.
[Rule 62-297.440(1)(i), FAC, and Rule 2.1201, JEPB]

Recordkeeping and Reporting Requirements

13. Monthly records shall be maintained for the following:

    a. The amount of hot mix asphalt produced.
    b. The amount and type of fuel oil used.
    c. The amount of natural gas used.
    d. Fuel oil sulfur content (each shipment)
    e. Analysis for Table I constituents (each shipment of used fuel oil)
    f. Hours of operation

    The above records and certified used fuel oil analyses shall be maintained on file for a minimum of two (2) years and made available to the Department upon request.
    [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

14. Recordkeeping shall be performed in accordance with the Operation and Maintenance Plan (O& M). Records shall be provided upon request of the Department.
    [Rule 62-296.700(6)(e), FAC, and Rule 2.1101, JEPB]

Emission Unit No. 002 – Nonmetallic Mineral Processing Plant

Emission Unit Description – Nonmetallic Mineral Processing Plant

40 CFR 60, Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants and 40 CFR 60, Subpart A, General Provisions shall apply to this emission unit.

Essential Potential to Emit (PTE) Parameters

1. This EU shall be allowed to operate continuously, i.e., 8,760 hours per year.
   [Rule 62-210.200(PTE), FAC, and Rule 2.301, JEPB]

2. The maximum process rate shall be limited to 93,300 tons per year of nonmetallic minerals.
   [Rule 62-210.200(PTE), FAC, and Rule 2.301, JEPB]

Emission Limitations and Standards

3. The owner or operator shall comply with the following emissions standards, as applicable:

   a. Stack emissions from any crusher, grinding mill, screening operation, bucket elevator, transfer point on belt conveyors, bagging operation, storage bin, enclosed truck or railcar loading station, or any other affected emission point subject to 40 CFR Part 60, Subpart OOO, adopted and incorporated by reference at Rule 62-204.800, FAC, and Rule 2.201, JEPB shall not contain particulate matter in excess of 0.05 grams per dry standard cubic meter (g/dscm) nor exceed 7% opacity, unless the stack emissions are discharged from a wet scrubbing control device.
   b. Stack emissions from any baghouse that controls emissions from only an individual, enclosed storage bin subject to 40 CFR Part 60, Subpart OOO, adopted and incorporated by reference at Rule 62-204.800, FAC, and Rule 2.201, JEPB, shall not exceed 7% opacity.

c. Visible emissions from any grinding mill, screening operation, bucket elevator, transfer point on belt conveyors, bagging operation, storage bin, enclosed truck or railcar loading station, or any other affected emission point subject to 40 CFR Part 60, Subpart OOO, adopted and incorporated by reference at Rule 62-204.800, FAC, and Rule 2.201, JEPB, shall not exceed 10% opacity; and visible emissions from any crusher without a capture system subject to 40 CFR Part 60, Subpart OOO, shall not exceed 15% opacity.
d. If any crusher, grinding mill, screening operation, bucket elevator, transfer point on belt conveyors, bagging operation, storage bin, enclosed truck or railcar loading station, or any other emission point subject to 40 CFR Part 60, Subpart OOO, adopted and incorporated by reference at Rule 62-204.800, FAC, and Rule 2.201, JEPB, is enclosed in a building, then each enclosed emission point must comply with the emission limits in this section or the building enclosing the emission point(s) shall not discharge any visible fugitive emissions, except emissions from a vent, and the vent emissions shall not exceed the stack emissions limits in this section.
e. Visible emissions from any crusher, grinding mill, screening operation, bucket elevator, transfer point on belt conveyors, bagging operation, storage bin, enclosed truck or railcar loading station, or any other emission point not subject to 40 CFR Part 60, Subpart OOO, shall be less than 20% opacity, pursuant to Rule 62-296.320(4)(b)1., FAC, and Rule 2.1101, JEPB.
f. Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher subject to 40 CFR Part 60, Subpart OOO, adopted and incorporated by reference at Rule 62-204.800, FAC, and Rule 2.201, JEPB, is exempt from the emissions standards of Rule 62-210.300(4)(c)5.e., FAC, and Rule 2.301, JEPB.

4. The owner or operator shall ensure that wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill or storage bin and are subject to 40 CFR Part 60, Subpart OOO, adopted and incorporated by reference at Rule 62-204.800, FAC, and Rule 2.201, JEPB, do not discharge any visible emissions. The owner or operator shall also ensure that screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, where such screening operations, bucket elevators, and belt conveyors process saturated materials up to the first crusher, grinding mill, or storage bin in the production line and are subject to 40 CFR Part 60, Subpart OOO, adopted and incorporated by reference at Rule 62-204.800, FAC, and Rule 2.201, JEPB, do not discharge any visible emissions.

Control Technology

5. For all relocatable nonmetallic mineral processing plants, except those located at mines or quarries and processing only material from onsite natural deposits, and for all stationary nonmetallic mineral processing plants processing dry material, the owner or operator shall have a water suppression system with spray bars located at the feeder(s), the entrance and exit of the crusher(s), the classifier screens, and the conveyor drop points.

6. The owner or operator shall comply with Rule 62-296.320(4)(c), FAC, and Rule 2.1101, JEPB using at least the following reasonable precautions:

a. Unconfined emissions that might be generated from various activities throughout a nonmetallic mineral processing plant processing dry material shall be controlled by using a water suppression system with spray bars located at the feeder(s), the entrance and exit of the crusher(s), the classifier screens, and the conveyor drop points.
b. Unconfined emissions that might be generated by vehicular traffic or wind shall be controlled by applying water (by water trucks equipped with spray bars) or effective dust suppressant(s) on a regular basis to all stockpiles, roadways and work-yards where this nonmetallic mineral processing plant is located.

7. The owner or operator of a nonmetallic mineral processing plant subject to 40 CFR Part 60, Subpart OOO, adopted and incorporated by reference at Rule 62-204.800, FAC, and Rule 2.201, JEPB, and using a wet scrubber to control emissions shall comply with the monitoring requirements of 40 CFR 60.674, adopted and incorporated by reference at Rule 62-204.800, FAC, and Rule 2.201, JEPB.

Testing Methods and Procedures

8. The VE reference test method shall be EPA RM 9, the visible fugitive emission reference test method shall be EPA RM 22, the particulate matter reference test method shall be either EPA RM 5 or 17, and the test procedures shall meet all applicable requirements of Chapter 62-297, FAC, 40 CFR 60.675, and 40 CFR Part 60, Appendix A, adopted and incorporated by reference at Rule 62-204.800, FAC, and Rule 2.201, JEPB.

9. The owner or operator shall be in compliance with 40 CFR 60.8, Performance Tests, and 40 CFR 60.11, Compliance with Standards and Maintenance Requirements.

Reporting and Recordkeeping Requirements

10. The permittee shall maintain records of the process weight throughput of the nonmetallic mineral processing system and the hours of operation on a monthly basis. These records shall be maintained on file for a minimum of two (2) years and made available to the Department upon request.
[Rule 62-4.070, and Rule 2.1401, JEPB]

11. The permittee shall submit a Facility Relocation Notification Form (DEP Form No. 62-210.900(6)) to the Department no later than one (1) business day following relocation of the Nonmetallic Mineral Processing plant in Duval County. The Facility Relocation Notification Form shall also include the following supplemental information:

    a. Provide a scale map (e.g., the relevant portion of a USGS topographic map) showing the proposed new location of the facility and points of air pollutant emissions in relation to roads and other features of the surrounding area.
    b. Provide a copy of the most recent compliance test report.

    [Rule 62-210.900(6), and Rule 2.301, JEPB]

12. The owner or operator shall be in compliance with the provisions of 40 CFR 60.676, Reporting and Recordkeeping, 40 CFR 60.7, Notification and Recordkeeping, and 40 CFR 60.19, General Notification and Reporting Requirements.