FACILITY

APAC – Southeast, Inc.

Facility ID No. 7770037
Project No. 015

AIR CONSTRUCTION PERMIT

COUNTY

Madison, Florida

PERMITTING AUTHORITY

Florida Department of Environmental Protection
Air Resource Section
Northeast District Office
8800 Baymeadows Way, Suite 100
Jacksonville, Florida 32256

June 05, 2013

A. APPLICANT NAME AND ADDRESS

APAC - Southeast, Inc
1212 NW US 221
Greenville Fl, 32331

Processing Schedule

04/16/2013	Department received the Application for Air Permit – Non-Title V Source
06/05/2013	Draft Permit Issued

B. FACILITY LOCATION

The existing facility is located in Madison County at 1212 NW US 221, Greenville, Florida. The UTM Coordinates: Zone 17, 247.515 km East and 3375.471 km North. Latitude: 30° 29' 06" North and Longitude: 83° 37' 49" West.

C. EXISTING FACILITY DESCRIPTION

APAC – Southeast, Inc. Greenville facility is a Hot Mix Asphalt plant (Standard Industrial Classification No. 2951). The facility processes virgin/conventional asphalt with 50 % recycled asphalt pavement (RAP). The asphalt concrete plant dryer's particulate emissions are controlled by a (BCE Model 400) baghouse to control particulate matter emissions from the drum.
The facility also consists of these exempt emission points: 1) Diesel Engine, and 2) Generator.

The facility uses reasonable precautions, as needed to control fugitive emissions in accordance with the requirements of Rule 62-296.320(4)(c), F.A.C. . – Unconfined Emissions of Particulate Matter.

Applicable Unit Specific Rule(s)

Hot Mix Asphalt Plant: The Hot Mix Asphalt Plant is subject to the requirements of 40 CFR 60, Subpart A- General Provisions and 40 CFR 60, Subpart I, Standards of Performance for Hot Mix Asphalt Facilities which is adopted by reference in Rule 62-204.800(8), F.A.C.

The facility is also subject to regulation under Rule 62-210.300(3)(c)1., F.A.C. (Conditional Exemptions from Title V Air Permitting).

D. SCOPE OF REVIEW

On April 16, 2013, the Department received an application for a construction permit for the installation of a 400 TPH rotary asphalt drum mixer with baghouse manufactured by CMI Corporation to replace the existing 300 TPH Drum Mixer with BCE Model 400 Baghouse at the facility. The facility has requested a restriction of hours of operation of the Asphalt Plant to 4307 hours per year.

The 173MMBtu/hr burner may be fired with either, No. 2 fuel oil, No. 5 fuel oil; Biofuel oil or On-Spec used fuel oil and natural gas. Previous operation of this emissions unit under permit No. 7775056 the facility elected to restrict the sulfur content of all fuel oil to 0.5% instead of 1.0% by weight as allowed under Rule 62-210.300(3)(c)1., F.A.C. (Conditional Exemptions from Title V Air Permitting). Under this project the facility is requesting a change in the maximum sulfur content of On-Spec used fuel oil and No. 5 fuel oil not to exceed 0.9% by weight. The maximum sulfur content of No. 2 fuel oil and Biofuel oil remains at 0.5% by weight. The 173MMBtu/hr burner for the rotary drum dryer operation has not demonstrated compliance when burning biofuel. For the facility to burn biofuel Compliance demonstration as specified by, **Specific Condition A.14: Initial Compliance Test- Drum Mixer Baghouse -BioFuel,** of this permit must be met

The maximum RAP content that may be added to a mix at this facility is 50%. Under Permit No. 7775056-011-AC the maximum RAP content that may be added to a mix was 40%. In order to demonstrate Initial compliance as specified by **Specific Condition A.13** of this permit, the 400 TPH Rotary Drum Dryer with CMI Corporation Roto-Aire RA-418P/1008 Baghouse must be operated at the maximum 50 % RAP (worst case scenario) during testing.
Initial testing is required as the unit has been in a cold stand by state for the past five years and has not been required to test as the facility under permit 7775056-012-AO has not been in operation (Rule 62- 297.310 (7) (a)3.a.).

Fugitive emissions from aggregate stockpiles and vehicular traffic areas are controlled pursuant to the requirements of Rule 62-296.320(4)(c),F.A.C. – Unconfined Emissions of Particulate Matter.

This project will replace the following emissions unit.

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ID No.	Emission Unit Description
001	~~300 TPH Drum Mix Asphalt Plant with BCE Model 400 Baghouse~~ 400 TPH Drum Mix Asphalt Plant with CMI Corporation Roto-Aire RA-418P/1008 Baghouse
003	RAP Crushing Operation
EP	
01	RAP Crusher/Grinder
02	Conveyor Drop Points
03	RAP Screener

The applicant estimated emissions from the installation of the proposed 400 TPH Drum Mixer are based on emission factors from U.S. EPA's Compilation of Air Pollutant Emission Factors, 5th Edition, Supplement D (AP-42) and from source test report APAC Hardeeville, SC 7/1/09 Estimated emissions Rotary Drum Dryer/mixer Installation

Rotary Drum Dryer/Mixer Emissions (TPY)			
	Emissions factor	Source	Emissions
Particulate Matter (PM)	0.04 gr/dscf	NSPS	**22.97**
Sulfur Dioxide (SO2)	0.058 lb/ton	AP 42, Table	**14.50**
Carbon Monoxide (CO)	0.11794 lb/gal	Source Test	**70.76**
Nitrogen Oxide (NOX)	0.055 lb/ton	AP 42, Table	**7.91**
Volatile Organic Compounds (VOC)	0.032 lb/ton	AP 42, Table	**8.0**

Estimated potential emissions are derived from the unit operating at 4307 hours per year, 400 TPH and 500,000 TPY. Based on the Information provided in air permit applications dated 04/16/13 no increase in emissions is expected from the installation of the drum mixer.

E. Air Pollution Regulations

Projects at stationary sources with the potential to emit air pollution are subject to the applicable environmental laws specified in Section 403 of the Florida Statutes (F.S.). The statutes authorize the Department of Environmental Protection (Department) to establish regulations regarding air quality as part of the Florida Administrative Code (F.A.C.), which includes the following applicable chapters: 62-4 (Permits); 62-204 (Air Pollution Control – General Provisions); 62-210 (Stationary Sources – General Requirements); 62-212 (Stationary Sources – Preconstruction Review); 62-213 (Operation Permits for Major Sources of Air Pollution); 62-296 (Stationary Sources - Emission Standards); and 62-297 (Stationary Sources – Emissions Monitoring). Specifically, air construction permits are required pursuant to Rules 62-4, 62-210 and 62-212, F.A.C.

In addition, the U. S. Environmental Protection Agency (EPA) establishes air quality regulations in Title 40 of the Code of Federal Regulations (CFR). Part 60 specifies New Source Performance Standards (NSPS) for numerous industrial categories. Part 61 specifies National Emission Standards for Hazardous Air Pollutants (NESHAP) based on specific pollutants. Part 63 specifies NESHAP based on the Maximum Achievable Control Technology (MACT) for numerous industrial categories. The Department adopts these federal regulations on a quarterly basis in Rule 62-204.800, F.A.C.

F. Facility Regulatory Categories

- The facility is not a major source of hazardous air pollutants (HAP).
- The facility has no units subject to the acid rain provisions of the Clean Air Act.
- The facility is not a Title V major source of air pollution in accordance with Chapter 213, F.A.C.
- The facility is not a major stationary source in accordance with Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

Title V Applicability

Based on the submitted application, facility-wide potential emissions are below the Title V major source thresholds of 100 tons per year of any regulated pollutant, 5 tons per year of lead, and 10 tons per year or more of any hazardous air pollutant or 25 tons per year or more of any combination of hazardous air pollutants.

Applicability of Previous Air Permits

The conditions of this permit supplements all other previously issued air permits for this facility. These conditions are in addition to all other applicable permit conditions and regulatory requirements. The owner or operator shall continue to comply with the conditions of those permits, which include restrictions and standards regarding capacities, production, operation, fuels, emissions, monitoring, recordkeeping, reporting, operation of air pollution control devices, and the like. The Permittee shall also comply with the applicable Rules of 62-4, 62-210, 62-212, 62-296, and 62-297, F.A.C.

G. Preliminary Determination

The Department makes a preliminary determination that the proposed project will comply with all applicable state and federal air pollution regulations as conditioned by the draft permit. This determination is based on a technical review of the complete application, reasonable assurances provided by the applicant, and the conditions specified in the draft permit. Yasmin K. Enriquez is the project processor responsible for reviewing the application and drafting the permit. Additional details of this analysis may be obtained by contacting the project processor at the Florida Department of Environmental Protection, Northeast District Office, 8800 Baymeadows Way West, Suite 100, Jacksonville, FL 32256, Phone: 904/256-1700.