TECHNICAL EVALUATION
&
PRELIMINARY DETERMINATION

APPLICANT

CEMEX Construction Materials Florida, LLC
11430 Camp Mine Road
Brooksville, FL 34601

Gregg Mine Facility

Facility ID No. 0530044

PROJECT

Project No. 0530044-022-AC
Application for Minor Air Construction Permit
Project Name: Addition of Second Crusher

COUNTY

Hernando County, Florida

PERMITTING AUTHORITY

Florida Department of Environmental Protection
Air and Solid Waste Permitting
Southwest District Office
Temple Terrace, Florida 33637-0926

November 7, 2014

Prepared by Sara Gonzalez

GENERAL PROJECT INFORMATION

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.

Glossary of Common Terms

Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of this permit.

I. Facility Description:

For the operation of a facility that contains limestone processing plants and other associated equipment at a site designated as the Gregg Mine Facility. The facility is a natural non-Title V facility based on particulate matter (PM_{10}) emissions, since the facility's physical capability and the nature of the facility's operation that necessitates the usage of water for production, instead of the usage of water as a control measure naturally limits particulate matter (PM_{10}).

The facility crushes, sorts, and washes limestone to meet various sizing specifications. Emission units at the facility are the Hard Rock Plant, Mobile Soft Rock Plant, Diesel Drive, and Screenings Top Off Plant. Process unconfined emission sources include crushers, screens, conveyor belts, hoppers, and storage bins. Non-process unconfined emission sources include blasting, roadways, and stockpiles.

The air emission sources at this facility are as described below:

Emission Unit No. 001 – Hard Rock Plant
The hard rock plant incorporates a truck loading system and a sand plant (see Table Nos. 1 and 2). The plant has a maximum throughput rate of 3,600 tons/hr. (monthly average basis) and 16,000,000 ton per any consecutive 12 month period. This plant utilizes water and water spray equipment in many areas throughout the plant.

Emission Unit No. 005 – Mobile Soft Rock Plant
The mobile soft rock plant includes two mobile crushing units and has a maximum throughput rate of 600 tons/hr. (monthly average basis) and 1,500,000 tons per any consecutive 12 month period (see Table Nos. 3 and 4). The plant includes two mobil crushing units. The plant is permitted for operation at only the Gregg Mine Facility.

Emission Unit No. 006 – Diesel Drive

The mobile soft rock plant is powered by a Cat C-15, 435 HP, diesel drive, fired with virgin diesel fuel oil at a maximum fuel consumption rate of 30 gallons/hr. (corresponds to a maximum heat input rate of 4.2 MMBTU/hr.). The diesel drive shall burn a maximum of 75,000 gallons of virgin diesel fuel oil per any consecutive 12 month period. The existing diesel drive is not subject to 40 CFR 60, Subpart IIII.

Emission Unit No. 007- Screenings Top Off Plant
The screenings top off plant has a maximum throughput rate of less than 25 tons/hr. (monthly average basis) and less than 219,000 tons per any consecutive 12 month period.

II. Project Description:

A. Applicant:

Greg Bridge, Environmental Manager
CEMEX Construction Materials Florida, LLC
11430 Camp Mine Road
Brooksville, FL 34601

B. Professional Engineer:

Max Lee, Senior Project Engineer
Koogler and Associates, Inc.
4014 NW 13th Street
Gainesville, FL 32609

C. Project Location:

11430 Camp Mine Road
Brooksville, FL 34601

D. Project Summary:

The addition of a secondary crusher associated with the Soft Rock Plant (EU No. 005). The secondary crusher will be in addition to the existing portable crusher.

E. Application Information:

Application Received on: August 28, 2014
Application Complete on: August 28, 2014

III. Applicable State and Federal Regulations

This project is subject to the preconstruction review requirements of Chapter 403, Florida Statutes and Chapters 62-204 through 62-297, Florida Administrative Code (F.A.C.), as indicated below.

Subject to:	**Y/N**	**Comments**
Rule 62-210.300, F.A.C. – Permits Required	Y	subject to general permitting requirements
Rule 62-212.400, F.A.C. - Prevention of Significant Deterioration	N	facility is not a PSD major source
Rule 62-296.320(4), F.A.C. - General Particulate Emission Limiting Standards	Y	This facility is a source of unconfined particulate matter emissions

Subject to:	Y/N	Comments
Rules 62-296.320(1) and (2), F.A.C. - General Pollutant Emission Limiting Standards (VOCs and Odor)	N	Facility is not expected to be a source of volatile organic compounds (VOC) or a source of odors
Rule 62-296.401-418, F.A.C. - Stationary Source Emission Standards	N	there is no applicable source category
Rule 62-296.500, F.A.C. - Reasonably Available Control Technology (VOC)	N	Hernando County is not an air quality maintenance area for ozone
Rule 62-296.700, F.A.C. - Reasonably Available Control Technology (PM)	N	this is a new source, therefore not subject to PM RACT rule
Rule 62-204.800, F.A.C. - Standards of Performance for New Stationary Sources (NSPS)	Y	40 CFR Part 60, Subpart OOO
Rule 62-204.800, F.A.C. National Emission Standard for Hazardous Air Pollutants (NESHAPS – 40 CFR 61)	N	there is no applicable source category
Rule 62-204.800, F.A.C. National Emission Standard for Hazardous Air Pollutants for Source Categories a.k.a. MACT (NESHAPS – 40 CFR 63)	N	there is no applicable source category for EU No. 005
Chapter 62-213, F.A.C. - Operation Permits for Major Sources of Air Pollution	N	facility is a natural non-Title V source
Rule 62-297.310, F.A.C. - General Compliance Test Requirements, F.A.C.	Y	VE testing is required for EU No. 005

IV. Summary of Emissions

Pollutant	EU No. and brief description	Potential Emissions (tpy)	Allowable Emissions (tpy)
PM	001	20.4	n/a
	005	5.22	n/a
	006	1.63	n/a
	007	0.03	n/a
	Total	**27.28**	
PM10	001	8.6	n/a
	005	2.35	n/a
	006	1.63	n/a
	007	0.01	n/a
	Total	**12.59**	
VOC	006	1.89	n/a
	Total	**1.89**	
NOx	006	23.15	n/a
	Total	**23.15**	

Pollutant	**EU No. and brief description**	**Potential Emissions** (tpy)	**Allowable Emissions** (tpy)
SO2	006	1.52	n/a
	Total	**1.52**	
CO	006	4.99	n/a
	Total	**4.99**	

V. Conclusions

The emission limits proposed by the applicant will meet all of the requirements of Chapters 62-204 through 297, F.A.C.

The General and Specific Conditions listed in the proposed permit (attached) will assure compliance with all the applicable requirements of Chapters 62-204 through 297, F.A.C.

VI. 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. Additional details of this analysis may be obtained by contacting the project engineer at the Florida Department of Environmental Protection Air Resource Management, Southwest District 13051 North Telecom Parkway, Temple Terrace, Florida 33637-7600.

Pursuant to Section 403.087, Florida Statutes and Section 62-4.070, Florida Administrative Code, the Department hereby gives notice of its intent to issue a permit to construct the aforementioned air pollution source in accordance with the draft permit and its conditions as stipulated (see attached).