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FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR RESOURCE MANAGEMENT

2011 DEC 23 PM 4:09

NONMETALLIC MINERAL PROCESSING PLANT (CRUSHER) WORKSHEET  
AIR GENERAL PERMIT EXAMPLE REGISTRATION WORKSHEET & ACCOUNTING REVENUE

Facility Identification Number - If known (seven digit number)

0630057 0630057-002

Registration Type

Check one:

INITIAL REGISTRATION - Notification of intent to:

- Construct and operate a proposed new facility.
Operate an existing permitted facility not currently using an air general permit...
Operates an existing facility not currently permitted or using an air general permit.

RE-REGISTRATION (for facilities currently using an air general permit) - Notification of intent to:

- Continue operating the facility after expiration of the current term of air general permit use.
Continue operating the facility after a change of ownership.
Make an equipment change requiring re-registration pursuant to Rule 62-210.310(2)(e), F.A.C.
Any other change not considered an administrative correction under Rule 62-210.310(2)(d), F.A.C.

Surrender of Existing Air Operation Permit(s) - For Initial Registrations Only, if Applicable

All existing air operation permits for this facility are hereby surrendered upon the effective date of this air general permit; specifically permit number(s):

n/a

General Facility Information

Facility Owner/Company Name (Name of corporation, agency, or individual owner who or which owns, leases, operates, controls, or supervises the facility.)

Marianna Limestone LLC

Site Name (Name, if any, of the facility site; e.g., Plant A, Metropolis Plant, etc. If more than one facility is owned, a complete registration must be submitted for each.)

Marianna Limestone Quarry

Facility Location (Physical location of the facility, not necessarily the mailing address.)

Street Address: 3333 Valleyview Road
City: Marianna County: Jackson Zip Code: 32446-5664

Facility Start-Up Date (Estimated start-up date of proposed new facility.)(N/A for existing facility.)

N/A

**Facility Contact**

Name and Position Title (Plant manager or person to be contacted regarding day-to-day operations at the facility.)

Print Name and Title: C. Leon Brooks, owner

Facility Contact Telephone Numbers

Telephone: 850-526-3580

Fax: (850) 482-2087

Cell phone: 850-573-0635

E-mail: Nikki Bethea @ embargmail.com

Facility Contact Mailing Address

Organization/Firm: Marianna Limestone LLC

Mailing Address: P.O. Box 1505

City: Marianna

County: Jackson

Zip Code: 32447

**Other Contact/Representative (to serve as additional Department contact)**

Name and Position Title

Print Name and Title: Nikki Bethea, Engineer

Other Contact/Representative Telephone Numbers

Telephone: (850) 482-8600

Fax: (850) 482-2087

Cell phone: (850) 573-1317

E-mail: Nikki Bethea @ Bethea Engineering.com

Other Contact/Representative Mailing Address

Organization/Firm: Betha Engineering, Inc.

Mailing Address: P.O. Box 1502

City: Marianna

County: Jackson

Zip Code: 32447

**Government Facility Code (check only one)**

- Facility not owned or operated by a federal, state, or local government.
- Facility owned or operated by the federal government.
- Facility owned or operated by the state.
- Facility owned or operated by the county.
- Facility owned or operated by the municipality.
- Facility owned or operated by a water management district.

**Type of Facility**

Check one:	
<input checked="" type="checkbox"/> Stationary Facility	<input checked="" type="checkbox"/> Relocatable Facility

**Type(s) of Precautions Used to Prevent Unconfined Emissions**

Check all that apply for the management of roads, parking areas, stock piles and yards:		
<input checked="" type="checkbox"/> Maintain Roads/Parking/Yards	<input checked="" type="checkbox"/> Use Water Application	<input type="checkbox"/> Use Dust Suppressant
<input type="checkbox"/> Remove Particulate Matter	<input type="checkbox"/> Reduce Stock Pile Height	<input checked="" type="checkbox"/> Install Wind Breaks
Check the location of spray bars at the nonmetallic mineral processing plant:		
<input checked="" type="checkbox"/> Feeders	<input checked="" type="checkbox"/> Entrance to "Crusher"	<input checked="" type="checkbox"/> Exit of "Crusher"
<input checked="" type="checkbox"/> Classifier Screens	<input checked="" type="checkbox"/> Conveyor Drop Points	

**Emission Unit Details**

(SEE ATTACHED)

COMPONENT DESCRIPTION (e.g. primary, secondary crusher, screener, conveyor, RICE* engine and fuel type, etc.)	MANUFACTURER	DATE OF MANUFACTURE	MODEL NUMBER	SERIAL NUMBER	RATED CAPACITY (tons/hr, hp)	SUBJECT TO 40 CFR, PART 60, SUBPART 000 (Yes or No)**

\*RICE: Reciprocating Internal Combustion Engine  
 \*\*NMMP Facilities subject to Subpart 000:  
 Stationary sand and gravel plants with a machine (or a maximum) rated capacity greater than 150 tons per hour  
 Portable sand and gravel plants with a machine (or a maximum) rated capacity greater than 25 tons per hour  
 Clay and pumice plants with a machine (or a maximum) rated capacity greater than 10 tons per hour

Florida DEP  
 Air Resource Management  
 Air Permit / Affected Facilities  
 Date Prepared: 12/1/11  
 Date Modified:

Affected Facility Stationary Plant	Manufacturer	Date of Manufacture	Model Number	Identifier and Serial Number	Size (TPH, HP, KW, etc.)	Subject to 40 CFR Part 60, Subpart 000		PURPOSE
						YES	NO	
Primary Crusher ✓	Universal	1973	3648	139X9	800 TPH		X	
Secondary Crusher ✓	Missouri Rogers	1972	3850	3850sdfsp198	800 TPH		X	
Screen Operation ✓	Kolberg Pioneer	1981	5x10	19546010812M	800 TPH		X	
Conveyor 1	Shop Built	1981	NA	NA	30" * 23'		X	Short Fines
Conveyor 2	Shop Built	1981	NA	NA	30" * 85'		X	Long Fines
Conveyor 3	Shop Built	1981	NA	NA	42" * 135'		X	Primary Out Feed
Conveyor 4	Shop Built	2006	NA	NA	42" * 80'	X		2nd In Feed
Conveyor 5	Shop Built	1981	NA	NA	36" * 90'		X	2nd Out Feed
Conveyor 6	Shop Built	2006	NA	NA	48" * 14'	X		Screener Belt
Conveyor 7	Shop Built	1990	NA	NA	24" * 60'	X		Radial Stacker
Conveyor 8	Kolberg	1981	NA	NA	24" * 50'		X	Oversize
Conveyor 9	Kolberg	1981	NA	NA	24" * 50'		X	Extra
Conveyor 10	Shop Built	1981	NA	NA	30" * 90'		X	Extra

Affected Facility Portable Plant	Manufacturer	Date of Manufacture	Model Number	Identifier and Serial Number	Size (TPH, HP, KW, etc.)	Subject to 40 CFR Part 60, Subpart 000	
						YES	NO
Primary Crusher ✓	CEC	2006	133X115	07318- 603403108107	400 TPH	X	
Conveyor 11	CEC	2006	3660	NA	36" * 60'	X	
Conveyor 12	CEC	2006	3060	NA	30" * 60'	X	

### Description of Facility

Below, or as an attachment to this worksheet, provide a description of the nonmetallic mineral processing plant operations at the facility in sufficient detail to demonstrate the facility's eligibility for use of this air general permit and to provide a basis for tracking any future equipment or process changes at the facility. Describe material(s) processed, all air pollutant-emitting processes, and identify any air pollution control measures used. Mobile source equipment information is not needed (eg.: trucks, bulldozers, front-end loaders, etc.)

SEE ATTACHED

### Helpful Definitions:

**"Capacity"** – Per 40 CFR 60.671, the cumulative rated capacity of all initial crushers that are part of the plant.

**"Department" or "DEP"** - The State of Florida Department of Environmental Protection.

**"Emissions Unit"** - Any part or activity of a facility that emits or has the potential to emit any air pollutant.

**"Facility"** - All of the emissions units which are located on one or more contiguous or adjacent properties, and which are under the control of the same person (or persons under common control).

**"Owner" or "Operator"** - Any person or entity who or which owns, leases, operates, controls or supervises an emissions unit or facility.

**"Nonmetallic Mineral Processing Plant"** – Per 40 CFR 60.671, any combination of equipment that is used to crush or grind any nonmetallic mineral wherever located, including lime plants, power plants, steel mills, asphalt concrete plants, portland cement plants or any other facility processing nonmetallic minerals except as provided in 40 CFR §60.670 (b) and (c).

**"Relocatable Facility"** - A facility such as, but not limited to, an asphalt plant, portable power generator, or relocatable nonmetallic mineral processing plant, which is designed to be physically moved to, and operated on, different sites by being wholly or partially dismantled and re-erected in essentially the same configuration. It shall not be operable while in transit.

**"Screening Operation"** – Per 40 CFR 60.671, a device for separating material according to size by passing undersize material through one or more mesh surfaces (screens) in series and retaining oversize material on the mesh surfaces (screens). Grizzly feeders associated with truck dumping and static (non-moving) grizzlies used anywhere in the nonmetallic mineral processing plant are not considered to be screening operations.

**"Size"** – Per 40 CFR 60.671, the rated capacity in tons per hour of a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station; the total surface area of the top screen of a screening operation; the width of a conveyor belt; and the rated capacity in tons of a storage bin.

## DESCRIPTION OF FACILITY

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Overburden is stripped and removed using excavators, front-end loaders and dump trucks to a nearby dumping site as part of a separate agricultural limestone mining operation. The top layer of high quality agricultural limestone is excavated and moved to a stockpile for crushing after excavators, front-end loaders and dump trucks have been cleaned of all dirt and other contaminants. This process occurs using our CEC crushing operation.

After the top layer of Marianna Limestone has been removed, the next layer of Crystal River limestone (also called Ocala Limestone) is mined for FDOT lime rock base. The first thirty-five to forty feet of the Crystal River limestone is above the local water table and will be broken for mining using ripper teeth and hydraulic hammers on excavators. Occasionally, blasting of this layer may be necessary. The next layer (water rock) will be blasted, then dug with an excavator or dragline and allowed to drain. The broken material is loaded onto dump trucks, hauled approximately one-fourth or one-half mile and stockpiled near the stationary impact crusher or dumped directly into the feed hopper of the crushing plant. Front-end loaders and/or excavators are then used to feed the crusher when dumping doesn't occur directly. Upon leaving the jaw crusher, the material is then fed into the impact crusher. The crushed lime rock base is then passed over a scalping screen to remove plus three-inch material. The plus three-inch material is then stockpiled for private sales or sent to our CEC crusher for further processing. After being crushed and screened, the proper sized materials are carried to the product pile using our 60 foot radial stacking conveyors. The material is then ready to be loaded onto trucks using front-end loaders.

At times, the CEC crusher is used to produce ag-lime. The screens will be changed to meet the size requirement of the ag-lime product specs.