

**AARC ENVIRONMENTAL-SOUTHEAST LLC**



Environmental,  
Occupational Health &  
Safety Solutions

**APPLICATION FOR AIR GENERAL PERMIT REGISTRATION  
NONMETALLIC MINERAL PROCESSING PLANTS (CRUSHERS)  
NORTH FLORIDA ROCK, LTD. - MARIANNA DOLOMITE MINE  
MARIANNA, FL**

**MARCH 2013**

**Prepared for:**

North Florida Rock, Ltd. – Marianna Dolomite Mine  
5160 Vermont Road,  
Marianna, FL 32448

**Submitted to:**

Florida Department of Environmental Protection  
Mail Station 77  
3800 Commonwealth Blvd.,  
Tallahassee, Florida 32399

AARC-SE Project No: 1-E-574-91

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**MAR 25 2013**

**DIVISION OF  
RESOURCE MANAGEMENT**

**FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
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REVENUE**

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## INTRODUCTION

North Florida Rock, Ltd. – Marianna Dolomite Mine is a nonmetallic mineral processing facility. The facility is located in Marianna; Jackson County, Florida. The facility engages in crushing, size classification by screeners, material handling and storage operations. The site is currently authorized (Authorization ID # 0630055-004-AG) for three crushers and associated equipment under FDEP Air General Permit Registration for nonmetallic mineral processing plants [F.A.C. Rule 62-210.310(5)(e)]. The facility added three additional crushers at the site and is seeking to authorize under FDEP Air General Permit Registration for nonmetallic mineral processing plants.

**AIR GENRAL PERMIT REGISTRATION WORKSHEET**

# NONMETALLIC MINERAL PROCESSING PLANTS (CRUSHERS)

## Air General Permit Example Registration Worksheet

The Department of Environmental Protection (“Department” or “DEP”) has established an “air general permit” at Florida Administrative Code (“F.A.C.”) Rule 62-210.310(5)(e) for nonmetallic mineral processing plants. An air general permit is an authorization by rule to construct or operate a specific type of air pollutant emitting facility. Use of such authorization by any individual facility does not require action by the Department. The terms and conditions of the air general permit are set forth in the rule, rather than in a separately issued air construction or air operation permit.

If you are the owner or operator of an eligible facility comprising one or more nonmetallic mineral processing plants, you may register to use the air general permit at Rule 62-210.310(5)(e), F.A.C., by following the general procedures given at subsections 62-210.310(2) and 62-210.310(3), F.A.C. To register, use the Department’s electronic registration system (currently under development) or submit all the information specified in the above rules to either of the following addresses, along with the air general permit registration processing fee (\$100.00), payable to FDEP.

### Regular USPS Mail Delivery

Department of Environmental Protection  
Receipts  
Post Office Box 3070  
Tallahassee, Florida 32315-3070

or

### Overnight Delivery (FedEx, UPS, DHL, etc.)

Department of Environmental Protection  
3800 Commonwealth Blvd.  
Mail Station 77  
Tallahassee, Florida 32399

If you properly register to use an air general permit, and are not denied use of the air general permit by the Department, you are authorized to construct and operate the facility in accordance with the general terms and conditions of Rule 62-210.310, F.A.C., and the specific terms and conditions of Rule 62-210.310(5)(e), F.A.C. Your facility may vary, so be sure your registration describes the operations at your facility in sufficient detail to demonstrate the facility’s eligibility for use of the air general permit and to provide a basis for tracking any future equipment or process changes. Your registration should describe all air pollutant-emitting processes and equipment at the facility, and it should identify any air pollution control measures or equipment used.

The rules do not require any specific format for the registration. This worksheet, however, has been designed to assist owners and operators. Using it as a template for a general permit registration will help ensure that all necessary information is submitted.

Additional information can be found on the Department’s air general permit program website ([http://www.floridadep.org/air/emission/air\\_gp.htm](http://www.floridadep.org/air/emission/air_gp.htm)) or by calling the Small Business Environmental Assistance Program Hotline at 1-800-SBAP-HLP (1-800-722-7457).

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NONMETALLIC MINERAL PROCESSING PLANT (CRUSHER)  
AIR GENERAL PERMIT EXAMPLE REGISTRATION WORKSHEET  
DEPARTMENT OF AIR  
RESOURCE MANAGEMENT

Facility Identification Number - If known (seven digit number)

0630055-005

0630055

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 (e.g., a facility proposing to go from an air operation permit to an air general permit). If the facility currently holds one or more air operation permits, such permit(s) must be surrendered by the owner or operator upon the effective date of this air general permit. (See "Surrender of Existing Air Operation Permit(s)" below.)
- 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.)  
North Florida Rock, Ltd.

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 Dolomite Mine

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

Street Address: 5160 Vermont Road

City: Marianna

County: Jackson

Zip Code: 32448

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

N/A

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**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: Fred Webb, President

Facility Contact Telephone Numbers

Telephone: 850-769-2481

Fax: 850-769-2482

Cell phone: \_\_\_\_\_

E-mail: \_\_\_\_\_

Facility Contact Mailing Address

Organization/Firm: North Florida Rock, Ltd.

Mailing Address: 1714 W. 23rd Street, Suite O

City: Panama City

County: Bay

Zip Code: 32405

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

Name and Position Title

Print Name and Title: Venkata Godasi, Graduate Engineer

Correspondence Contact/Representative Telephone Numbers

Telephone: 813-249-2272

Fax: 866-326-2272

Cell phone: \_\_\_\_\_

E-mail: vgodasi@aacrcenv.com

Correspondence Contact/Representative Mailing Address

Organization/Firm: AARC Environmental-Southeast Inc.

Mailing Address: 400 North Ashley Dr., Ste. 1775

City: Tampa

County: Hillsborough

Zip Code: 33602

**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.

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**Type of Facility**

Check one:

Stationary Facility                       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:

Maintain Roads/Parking/Yards       Use Water Application       Use Dust Suppressant  
 Remove Particulate Matter       Reduce Stock Pile Height       Install Wind Breaks

Check the location of spray bars at the nonmetallic mineral processing plant:

Feeders                       Entrance to "Crusher"       Exit of "Crusher"  
 Classifier Screens                       Conveyor Drop Points

**Emission Unit Details**

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 OOO (Yes or No)**
Primary Crusher	Cedar Rapids	1982	4340	Crusher-P1	200 tons/hr	No
Screen-1	Tyler	Pre-1983		P1-S1	48 ft2	No
Screen-2	Tyler	Pre-1983		P1-S2	15 ft2	No
Screen-3	Diester	Pre-1983		P1-S3	112 ft2	No
Screen-4	Diester	Pre-1983		P1-S4	112 ft2	No
Hopper-1	In-House	Pre-1983		P1-H1	50 tons	No
Hopper-2	Powerscreen	Post-1983		P1-H2	20 tons	Yes
Conveyor-1	In-House	Pre-1983		P1-C1	42 ln	No
Conveyor-2	In-House	Pre-1983		P1-C2	30 ln	No
Conveyor-3	In-House	Pre-1983		P1-C3	24 ln	No
Conveyor-4	Powerscreen	Post-1983		P1-C4	42 ln	Yes
Conveyor-5	In-House	Pre-1983		P1-C5	36 ln	No
Conveyor-6	In-House	Pre-1983		P1-C6	24 ln	No
Conveyor-7	In-House	Pre-1983		P1-C7	24 ln	No
Conveyor-8	In-House	Pre-1983		P1-C8	24 ln	No
Conveyor-9	In-House	Pre-1983		P1-C9	24 ln	No
Conveyor-10	In-House	Pre-1983		P1-C10	24 ln	No
Conveyor-11	In-House	Pre-1983		P1-C11	24 ln	No
Conveyor-12	In-House	Pre-1983		P1-C12	24 ln	No
See Attached Excel for Plant 2 to Plant 6						

\*RICE: Reciprocating Internal Combustion Engine

\*\*NMMP Facilities subject to Subpart OOO:

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



### 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.)

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### 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.

**“Unconfined Emissions”** - Emissions which escape and become airborne from unenclosed operations or which are emitted into the atmosphere without being conducted through a stack.

**Emission Unit Details (Continued)**

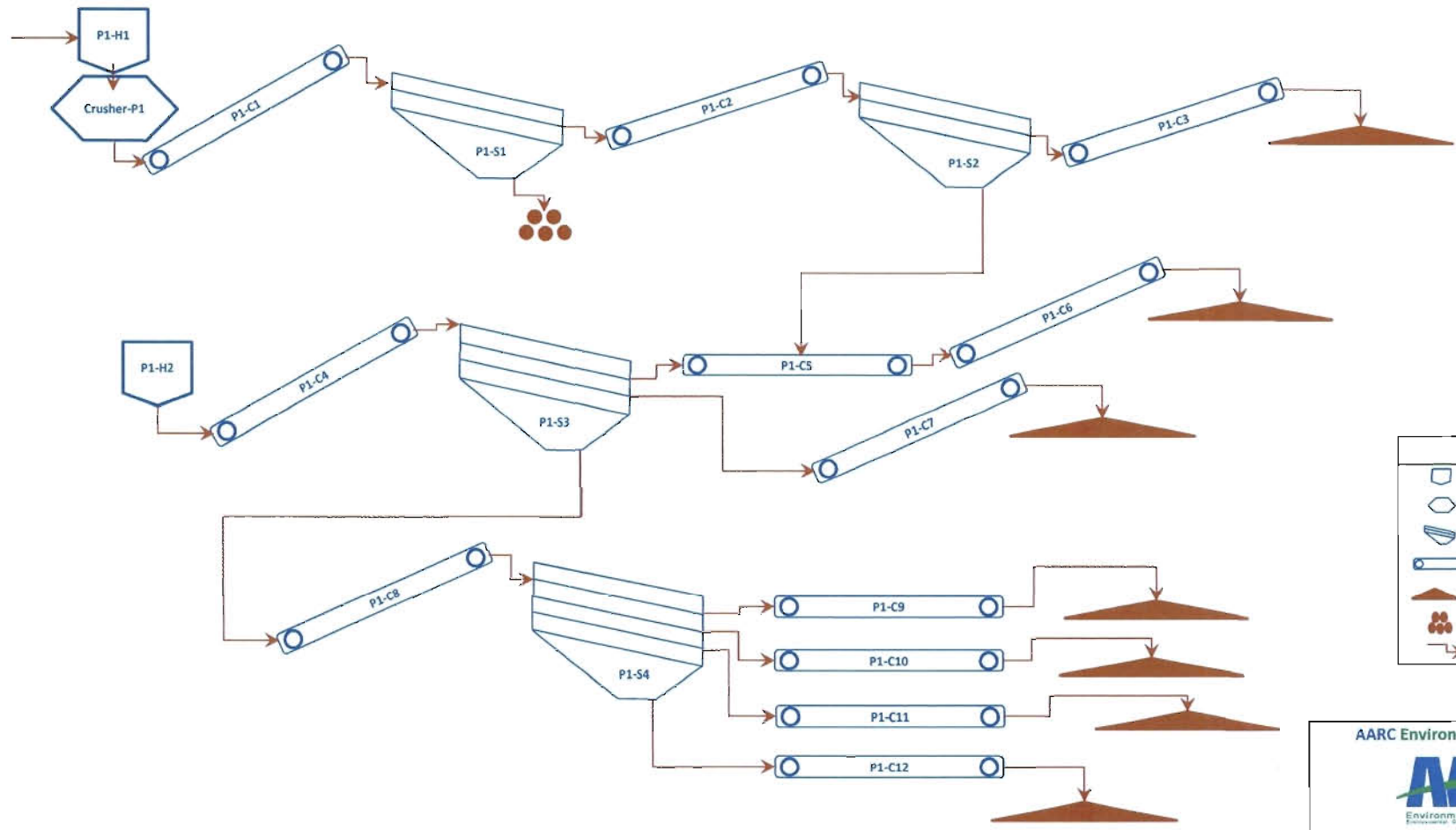
<b>COMPONENT DESCRIPTION</b> (e.g. primary, secondary crusher, screener, conveyor, RICE* engine and fuel type, etc.)	<b>MANUFACTURER</b>	<b>DATE OF MANUFACTURE</b>	<b>MODEL NUMBER</b>	<b>SERIAL NUMBER</b>	<b>RATED CAPACITY</b> (tons/hr, hp)	<b>SUBJECT TO 40 CFR, PART 60, SUBPART 000</b> (Yes or No)**
Primary Crusher	Cedar Rapids	Pre-1983	4340	Crusher -P2	200 tons/hr	No
Feed Hopper	In-House	Pre-1983		P2-H1	25 tons	No
Screener	Tyler	Pre-1983		P2-S1	48 ft2	No
Screener	Tyler	Pre-1983		P2-S2	48 ft2	No
Conveyor	In-House	Pre-1983		P2-C1	42 in	No
Conveyor	In-House	Pre-1983		P2-C2	36 in	No
Conveyor	In-House	Pre-1983		P2-C3	24 in	No
Conveyor	In-House	Pre-1983		P2-C4	24 in	No
Conveyor	In-House	Pre-1983		P2-C5	24 in	No
Primary Crusher	Cedar Rapids	Pre-1983	3633	Crusher -P3	200 tons/hr	No
Feed Hopper	In-House	Pre-1983		P3-H1	50 tons	No
Screener	Tyler	Pre-1983		P3-S1	48 ft2	No
Screener	Powerscreen	Pre-1983		P3-S2	50 ft2	No
Conveyor	In-House	Pre-1983		P3-C1	42 in	No
Conveyor	In-House	Pre-1983		P3-C2	36 in	No
Conveyor	In-House	Pre-1983		P3-C3	24 in	No
Conveyor	In-House	Pre-1983		P3-C4	24 in	No
Conveyor	In-House	Pre-1983		P3-C5	24 in	No
Conveyor	In-House	Pre-1983		P3-C6/P4-C4	36 in	No
Conveyor	In-House	Pre-1983		P3-C7/P4-C5	36 in	No
Conveyor	In-House	Pre-1983		P3-C8/P4-C6	42 in	No
Conveyor	In-House	Pre-1983		P3-C9/P4-C7	42 in	No
Primary Crusher	Cedar Rapids	2012	3633	Crusher -P4	200 tons/hr	Yes
Feed Hopper	In-House	2012		P4-H1	50 tons	Yes
Screener	Powerscreen	2012		P4-S1	50 ft2	Yes
Conveyor	In-House	2012		P4-C1	42 in	Yes
Conveyor	In-House	2012		P4-C2	36 in	Yes
Conveyor	In-House	2012		P4-C3	36 in	Yes

**Emission Unit Details (Continued)**

<b>COMPONENT DESCRIPTION</b> (e.g. primary, secondary crusher, screener, conveyor, RICE* engine and fuel type, etc.)	<b>MANUFACTURER</b>	<b>DATE OF MANUFACTURE</b>	<b>MODEL NUMBER</b>	<b>SERIAL NUMBER</b>	<b>RATED CAPACITY</b> (tons/hr, hp)	<b>SUBJECT TO 40 CFR, PART 60, SUBPART OOO</b> (Yes or No)**
Primary Crusher	Protec - Pioneer	2012	4654-PRSE-117	Crusher -P5	200 tons/hr	Yes
Feed Hopper	Protec - Pioneer	2012		P5-H1	50 tons	Yes
Screener	Protec - Pioneer	2012		P5-S1	25 ft2	Yes
Conveyor	Protec - Pioneer	2012		P5-C1	42 In	Yes
Conveyor	Protec - Pioneer	2012		P5-C2	42 In	Yes
Conveyor	In-House	2012		P5-C3	36 In	Yes
Conveyor	In-House	2012		P5-C4	36 In	Yes
Primary Crusher	REM Co, Inc.	2012	ST/AR VSI crusher	Crusher -P6	200 tons/hr	Yes
Feed Hopper	Powerscreen	2012	-	P6-H1	50 tons	Yes
Feed Hopper	Powerscreen	2012	Chieftain 2100	P6-H2	50 tons	Yes
Screener	Powerscreen	2012	Chieftain 2100	P6-S1	50 ft2	Yes
Screener	Powerscreen	2012	Chieftain 1400	P6-S2	50 ft2	Yes
Conveyor	In-House	2012	-	P6-C1	42 In	Yes
Conveyor	In-House	2012	-	P6-C2	42 In	Yes
Conveyor	Powerscreen	2012	Chieftain 2100	P6-C3	42 In	Yes
Conveyor	Powerscreen	2012	Chieftain 2100	P6-C4	42 In	Yes
Conveyor	Powerscreen	2012	Chieftain 2100	P6-C5	24 In	Yes
Conveyor	Powerscreen	2012	Chieftain 2100	P6-C6	24 In	Yes
Conveyor	Powerscreen	2012	Chieftain 1400	P6-C7	42 In	Yes
Conveyor	Powerscreen	2012	Chieftain 1400	P6-C8	24 In	Yes
Conveyor	Powerscreen	2012	Chieftain 1400	P6-C9	24 In	Yes

**ATTACHMENT-1: PROCESS FLOW DIAGRAM & PROCESS DESCRIPTION**

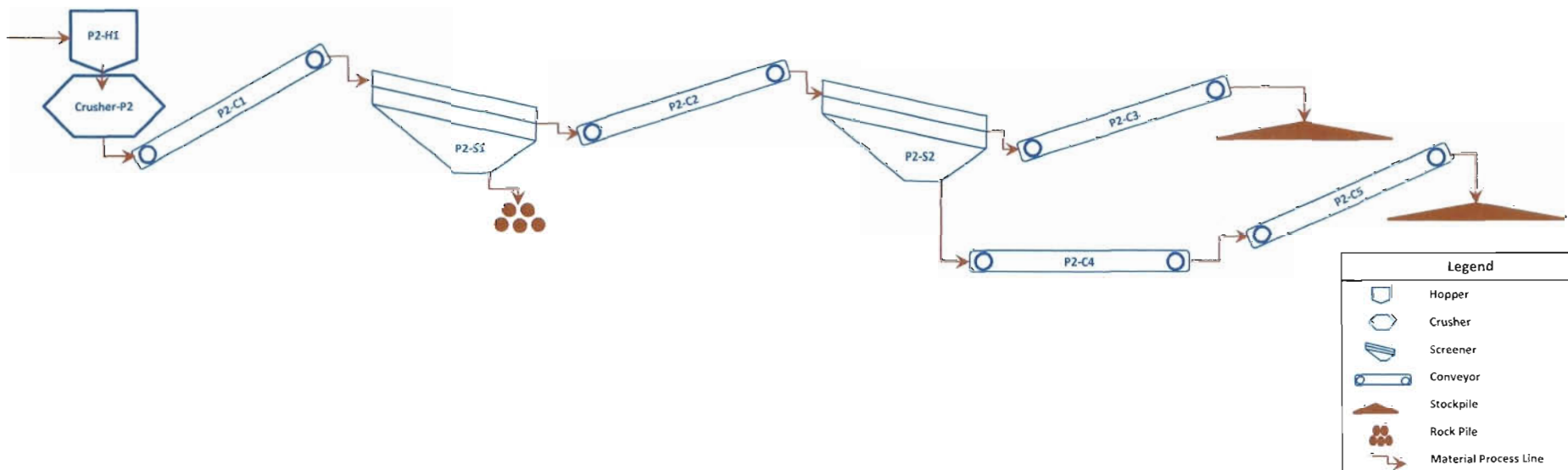
**North Florida Rock, LTD. - Marianna Dolomite Mine**  
 5160 Vermont Rd., Marianna, FL 32448 (Facility ID # 0630055)  
 Nonmetallic Mineral Processing Plants (Crushers) - FDEP Air General Permit Registration  
 Process Flow Diagram - Plant 1



Legend	
	Hopper
	Crusher
	Screener
	Conveyor
	Stockpile
	Rock Pile
	Material Process Line

**AARC Environmental-Southeast LLC.**  
  
 North Florida Rock, LTD. - Marianna Dolomite Mine  
 FDEP Air General Permit Registration  
 March, 2013

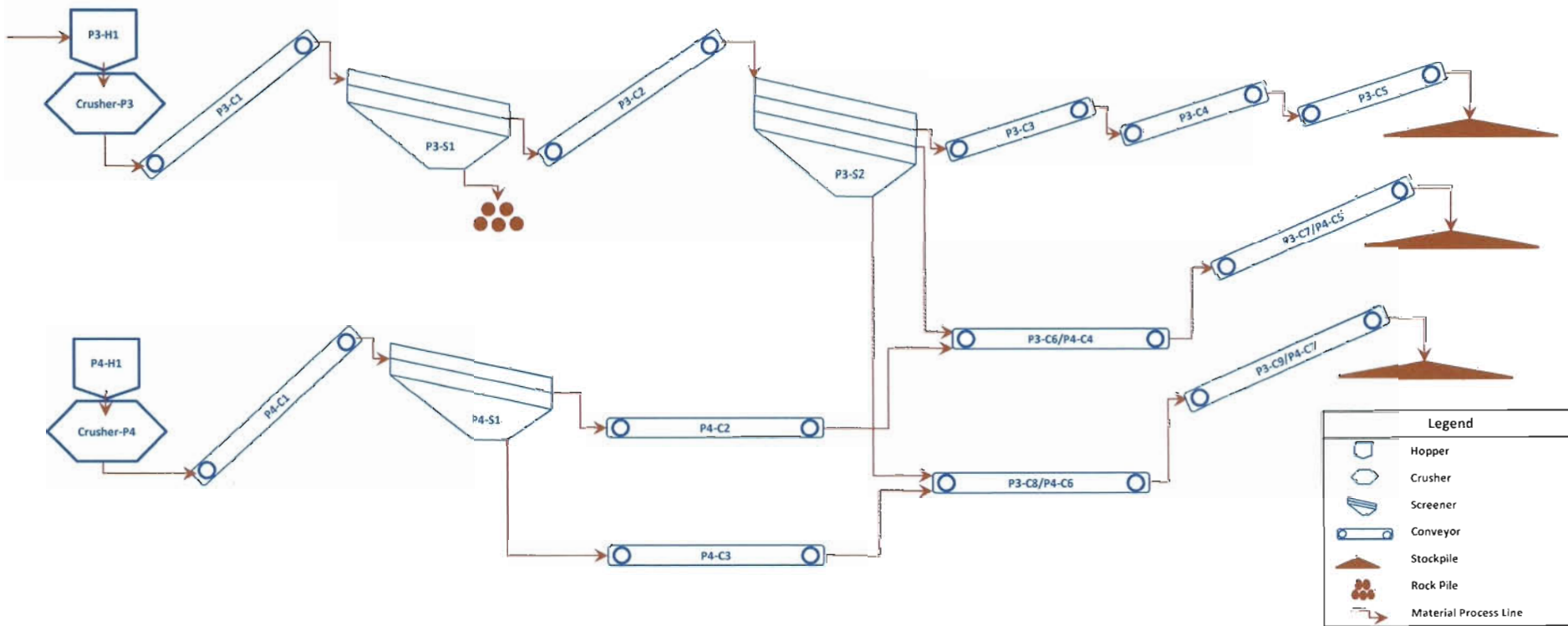
North Florida Rock, LTD. - Marianna Dolomite Mine  
 5160 Vermont Rd., Marianna, FL 32448 (Facility ID # 0630055)  
 Nonmetallic Mineral Processing Plants (Crushers) - FDEP Air General Permit Registration  
 Process Flow Diagram - Plant 2



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North Florida Rock, LTD. - Marianna Dolomite Mine  
 FDEP Air General Permit Registration  
 March, 2013

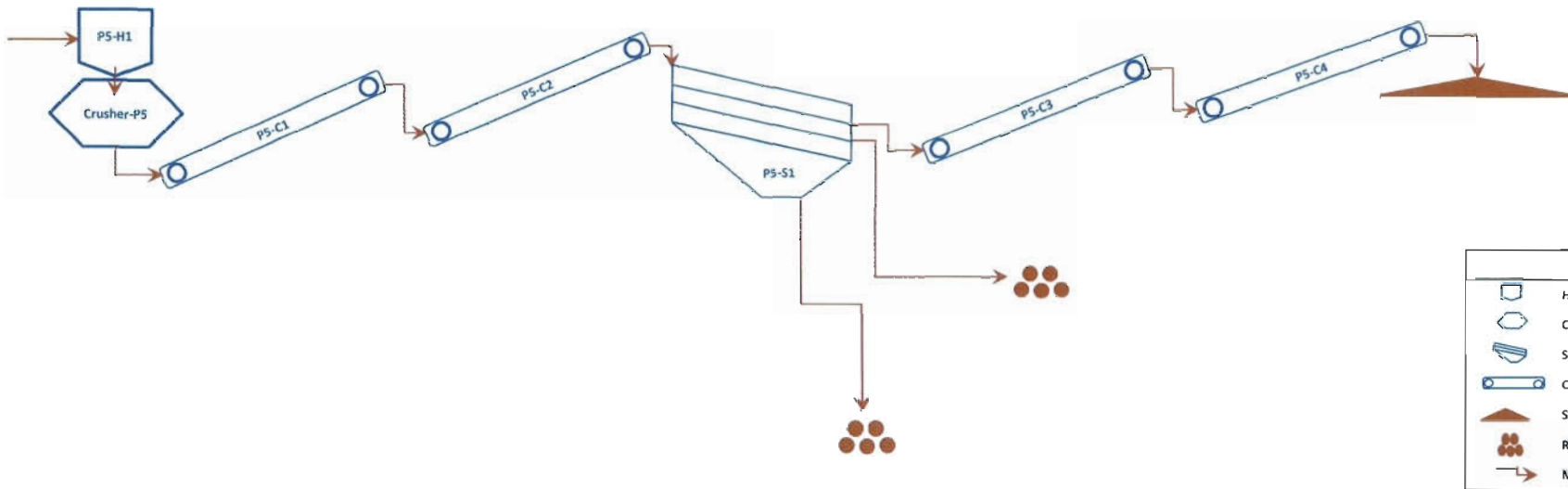
North Florida Rock, LTD. - Marianna Dolomite Mine  
 5160 Vermont Rd., Marianna, FL 32448 (Facility ID # 0630055)  
 Nonmetallic Mineral Processing Plants (Crushers) - FDEP Air General Permit Registration  
 Process Flow Diagram - Plant 3 & Plant 4



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North Florida Rock, LTD. - Marianna Dolomite Mine  
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North Florida Rock, LTD. - Marianna Dolomite Mine  
 5160 Vermont Rd., Marianna, FL 32448 (Facility ID # 0630055)  
 Nonmetallic Mineral Processing Plants (Crushers) - FDEP Air General Permit Registration  
 Process Flow Diagram - Plant 5

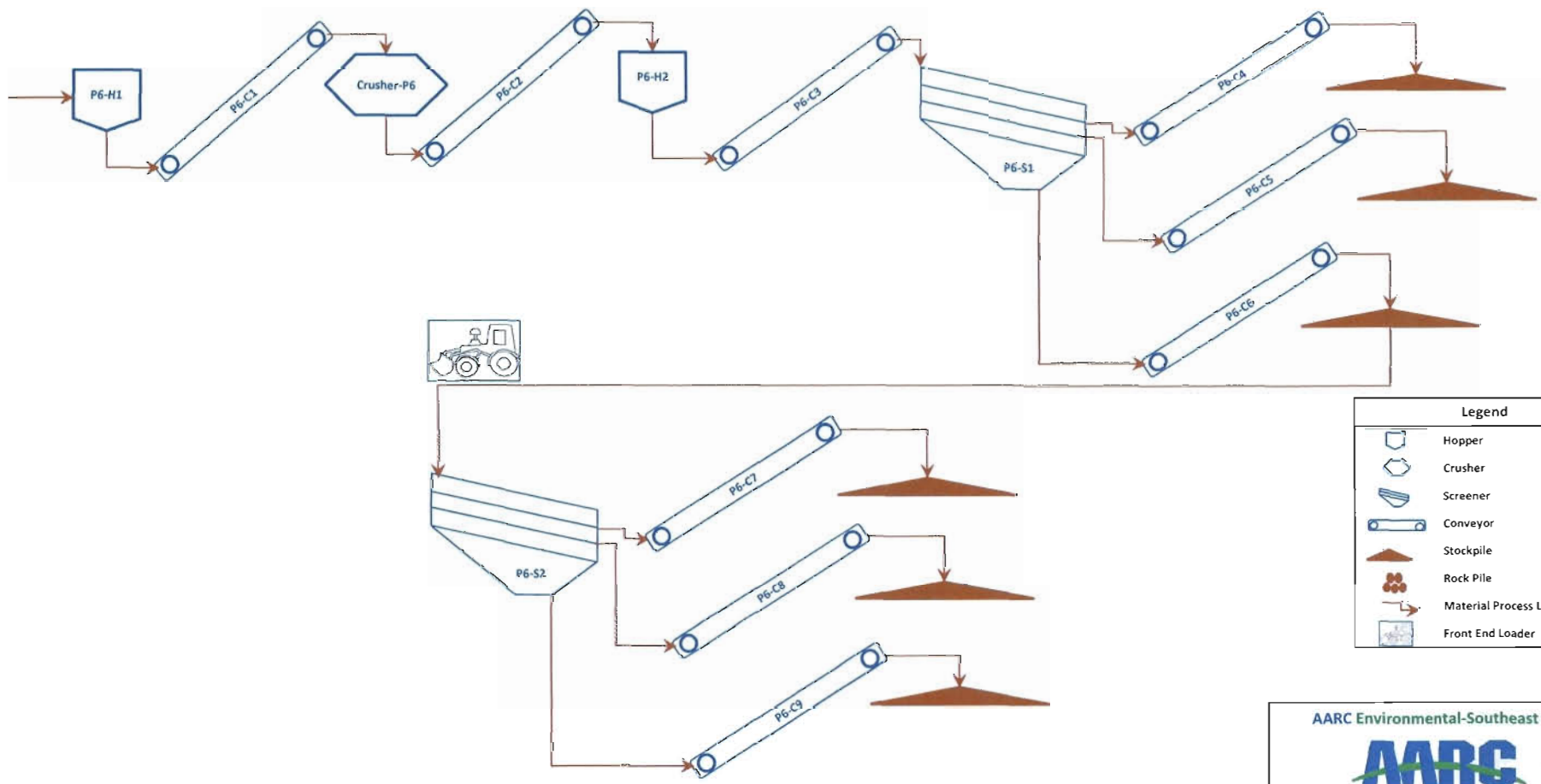


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North Florida Rock, LTD. - Marianna Dolomite Mine  
 FDEP Air General Permit Registration  
 March, 2013



**North Florida Rock, LTD. - Marianna Dolomite Mine**  
 5160 Vermont Rd., Marianna, FL 32448 (Facility ID # 0630055)  
 Nonmetallic Mineral Processing Plants (Crushers) - FDEP Air General Permit Registration  
 Process Flow Diagram - Plant 6



Legend	
	Hopper
	Crusher
	Screener
	Conveyor
	Stockpile
	Rock Pile
	Material Process Line
	Front End Loader

**AARC Environmental-Southeast LLC.**  
  
 North Florida Rock, LTD. - Marianna Dolomite Mine  
 FDEP Air General Permit Registration  
 March, 2013

## ATTACHMENT-2: 40 CFR PART 60 SUBPART 000

### New Source Performance Standard (40 CFR Part 60 – NSPS)

The facility's operations as described in this registration are subject to New Source Performance Standards (NSPS) Subpart 000 –Standard of Performance for Non-Metallic Mineral Processing Plants listed in 40 CFR Part 60.

The site has six non-metallic mineral processing plants:

1. Plant 1 is constructed prior to 1983, however some equipment added after 1983 which are subject to Subpart 000.
2. Plant 2 & 3 are constructed prior to 1983 and are not subject to Subpart 000
3. Plant 4, 5 & 6 are constructed in 2012 and are subject to Subpart 000

Below is the table summarizing plants, equipments and applicability of Subpart 000:

Plant	Equipment	Construction Date	Subject to 40 CFR Part 60 Subpart 000
Plant -1	Hopper -2 (P1-H2) & Conveyor-4 (P1-C4)	After 1983	Yes
	All Other Equipment	Prior to 1983	No
Plant -2	All Equipment	Prior to 1983	No
Plant -3	All Equipment	Prior to 1983	No
Plant -4	All Equipment	2012	Yes
Plant -5	All Equipment	2012	Yes
Plant -6	All Equipment	2012	Yes