Florida Department of Environmental Protection

Southwest District
13051 N. Telecom Parkway
Temple Terrace, Florida 33637-0926

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Herschel T. Vinyard Jr.
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FINAL PERMITS

PERMITTEE

Lehigh Hanson
840 West Avenue
Deland, FL 32720

Authorized Representative:
Mr. Charles Piwowarski, Southern Region Environmental Manager

Air Permit Nos. 1050388-004-AC
1050388-005-AO
Permits Expire: 03/31/2011 (AC)
09/26/2013 (AO)
Site Name : Hanson Pipe & Precast, LLC - Winter Haven Facility
Minor Air Construction and Operation Permits
Project Name: Add Portable Concrete Crushing System and Operation Permit Revision

These are the final revised air construction and operation permits, in one document. Construction Permit 1050388-004-AC authorizes the after-the-fact operation of a portable concrete crushing system. Operation Permit 1050388-005-AO incorporates the terms and conditions of the construction permit. The work is conducted at the Hanson Pipe & Precast, LLC Winter Haven Facility (Standard Industrial Classification No. 3272). The facility is located in Polk County at 1285 Lucerne Loop Road in Winter Haven, Florida. The UTM coordinates are Zone 17, 432.3 km East, and 3105.9 km North. As noted in the Final Determination provided with these final permits, no changes or only minor changes and clarifications were made to the revised draft permits.

This final document is organized by the following sections:

Section 1. General Information

Section 2. Administrative Requirements

Section 3. Facility-wide and Emissions Unit Specific Conditions

Section 4. Appendices

Because of the technical nature of the project, this document contains numerous acronyms and abbreviations, which are defined in Appendix A of Section 4 of this document.

These air pollution permits are issued under the provisions of: Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). The permittee is authorized to conduct the proposed work in accordance with the conditions of these permits. Project 1050388-004-AC is subject to the general preconstruction review requirements in Rule 62-212.300, F.A.C. and is not subject to the

preconstruction review requirements for major stationary sources in Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

Upon issuance of this final permits, any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statutes by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel (Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000) and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within 30 days after this order is filed with the clerk of the Department.

Executed in Hillsborough County, Florida

_____ _____

Mara Grace Nasca Effective Date
District Air Program Administrator
Southwest District

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Permit package (including the Final Determination, the Final Permits and the Appendices) was sent by electronic mail (or a link to these documents made available electronically on a publicly accessible server) with received receipt requested before the close of business on _____ to the persons listed below.

Charles Piwowarski, South Region Environmental Manager, Lehigh Hanson
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Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to Section 120.52(7), Florida Statutes, with the designated agency clerk, receipt of which is hereby acknowledged.

_____ _____

(Clerk) (Date)

FACILITY AND PROJECT DESCRIPTION

Existing Facility

This facility manufacturers concrete pipe. It is comprised of a concrete batching plant and pipe forming and coating operations. The existing facility consists of the following emissions unit.

Facility ID No. 1050388	
ID No.	Emission Unit Description
002	Pipe Forming and Coating Operation

Project Description and Proposed Emission Unit

This project is for the after-the-fact construction of a portable crushing system. The portable crusher is owned and operated by a third party and will be brought on- site as needed to aid in the removal of waste concrete from the facility. This project will add the following emissions unit.

Facility ID No. 1050388	
ID No.	Emission Unit Description
003	Portable Concrete Crushing System

NOTE: *Please reference the Permit No., Facility ID, and Emission Unit ID in all correspondence, test report submittals, applications, etc.*

Exempt Emission Units/Activities

Sand And Aggregate Transfer – The facility receives aggregate material by truck. From the truck, aggregate material is dumped into the ground dump storage area which consists of four separate storage areas. Particulate matter emissions are managed by the use of an automated system that maintains the aggregate storage pile below the partitioned walls. A conveyer system is used to transfer aggregate material from the dump storage area to the aggregate feeder bin.
[Rule 62-210.300(3)(b), F.A.C.]

Aggregate Feeder Bin – The facility has an aggregate feeder bin with a capacity of 375 tons and consists of four sections all located inside the building. Each section may contain a different type of materials. No bin vents are installed on the aggregate feeder bin, therefore PM emissions occur only while conveying aggregate material into the storage bin.
[Rule 62-210.300(3)(b), F.A.C.]

Cement and Cement Supplement Loading – The facility has a total of five storage silos which are all located inside a building and each has a storage capacity of 189 tons. Cement and cement supplement (fly ash and/or slag) are pneumatically transferred from trucks into the storage silos. The five silos are connected to a common 462 acfm (actual cubic feet per minute) stand-alone dust collector which is also located and discharges inside the building.
[Rule 62-4.040, F.A.C.]

Weight Hoppers / Concrete Mixers – The facility has two weight hoppers used to add proper amounts of aggregate and cement. Aggregate materials are fed by weight belt to a bucket conveyor into two mixers. Cement and cement supplement are screw conveyed into the weight hoppers. Material contained in the weight hopper is then conveyed into the two concrete mixers where water is added to create concrete. An air displacement bag (closed loop system with no exhaust outlet to the atmosphere) prevents particulate matter emissions from this process.
[Rule 62-4.040, F.A.C.]

> *Permitting Note: The activities listed above were previously permitted as Emission Unit 001. The department exemption determination may be revoked if the installation is substantially modified or the basis for the exemption is determined to be materially incorrect.*

Curing Chambers - After the forming process, the manufactured concrete pipes and precast structures are cured for approximately 12 hours in one of the two 28′ by 235′ curing chambers. Climate control of each of the curing chambers is by a propane fired burner with a maximum heat input of 2.15 MMBtu/hr. Use of the propane fired burners is more typical during cold weather months. (See EU 002 description below for process flow)
[Rule 62-210.300(3)(a)33., F.A.C.]

Engine Associated with the Portable Concrete Crushing System - A 325 HP (maximum) diesel engine with the maximum design heat input rate of 2.3 MMBtu/hour. It is fired with new No. 2 fuel oil.
[Rule 62-210.300(3)(a)36., F.A.C.]

Emergency Generator – A 536 HP diesel emergency generator with a heat input rate of 3.8 MMBtu/hour. It was built in 2007 and has a cylinder displacement of 15.2 liters. It is fired with new No. 2 fuel oil.
[Rule 62-210.300(3)(a)35., F.A.C.]

FACILITY REGULATORY CLASSIFICATION

- 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 (CAA).
- 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(PSD), F.A.C.
- This facility is a synthetic non-Title V source for volatile organic compounds, individual hazardous air pollutants and total hazardous air pollutants.
- The 536 HP diesel powered emergency generator is subject to the requirements of Title 40, Code of Federal Regulations (CFR), Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. As long as the permittee operates and maintains the engine according to the manufacturer's instructions or procedures over the entire life of the engine and the manufacturer keeps their certification, the engine is not required by the federal rule to demonstrate compliance with emission limits.

- If the engine brought on site with the Portable Concrete Crushing System (EU 003) remains on site for more than 12 consecutive months and was manufactured after April 1, 2006 or modified or reconstructed after July 11, 2005, it will be subject to the requirements of Title 40, Code of Federal Regulations (CFR), Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. As long as the permittee operates and maintains the engine according to the manufacturer's instructions or procedures over the entire life of the engine and the manufacturer keeps their certification, the engine is not required by the federal rule to demonstrate compliance with emission limits.
- If the engine brought on site with the Portable Concrete Crushing System (EU 003) remains on site for more than 12 consecutive months, it is subject to Title 40, Code of Federal Regulations, Part 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. An engine is considered existing if construction or reconstruction of the engine commenced before June 12, 2006. An engine is considered new if it was constructed or reconstructed on or after June 12, 2006. A new engine must comply with 40 CFR 60, Subpart IIII (see previous bullet). As of the effective date of this permit the Federal rule pertaining to existing engines has not been adopted by the State of Florida.

PERMIT HISTORY/AFFECTED PERMITS

Replaces Permit No. 1050388-003-AO.

SECTION 2. ADMINISTRATIVE REQUIREMENTS (FINAL)

1. Permitting Authority - The permitting authority for this project is the Florida Department of Environmental Protection (Department), Southwest District's Air Resource Management Section. The Southwest District's mailing address and phone number is:

Florida Department of Environmental Protection
Southwest District Office
Air Resource Management Section
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926
Telephone: 813-632-7600

All documents related to applications for permits shall be submitted to the above address.

2. Compliance Authority - All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Southwest District Office's Air Resource Management Section (see above mailing address and phone number).

3. Appendices - The following Appendices are attached as part of this document:

a. Appendix A. Citation Formats and Glossary of Common Terms;

b. Appendix B. General Conditions;

c. Appendix C. Common Conditions; and

d. Appendix D. Common Testing Requirements.

e. Appendix E. - 40 CFR 60, Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants

f. Appendix F. - 40 CFR 60, Subpart A - General Provisions

g. Appendix G. - Concrete Crushing System Flow Diagram

4. Applicable Regulations, Forms and Application Procedures - Unless otherwise specified in this document, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. Issuance of these permits does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.

5. New or Additional Conditions - For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time.
[Rule 62-4.080, F.A.C.]

6. Modifications - Unless otherwise exempt by rule, the permittee shall not initiate any construction, reconstruction, or modification at the facility and shall not install/modify any pollution control device at the facility without obtaining prior authorization from the Department. Modification is defined as: Any physical change or changes in the method of operations or addition to a facility that would result in an increase in the actual emissions of any air pollutant subject to air regulations, including any not previously emitted, from any emission unit or facility.
[Rules 62-210.200 - Definition of "Modification" and 62-210.300(1)(a), F.A.C.]

7. Annual Operating Report - On or before **April 1** of each year, the permittee shall submit a completed DEP Form 62-210.900(5), "Annual Operating Report for Air Pollutant Emitting Facility" (AOR) for the preceding calendar year. The report may be submitted electronically in accordance with the instructions received with the AOR package sent by the Department, or a hardcopy may be sent to the Compliance Authority.
[Rule 62-210.370(3), F.A.C.]

8. Operation Permit Renewal Application - A completed application for renewal of the operation permit shall be submitted to the Permitting Authority no later than 60 days prior to the expiration date of the operation permit. To properly apply for an operation permit, the applicant shall submit the following:

a. the appropriate permit application form *(see current version of Rule 62-210.900, F.A.C. (Forms and Instructions), and/or FDEP Division of Air Resource Management website at: http://www.dep.state.fl.us/air/)*;

b. the appropriate operation permit application fee from Rule 62-4.050(4)(a), F.A.C.;

c. copies of the most recent compliance test reports required by Specific Condition No. C.7., if not previously submitted; (if applicable) and

d. copies of the most recent two months of records/logs specified in Specific Condition No(s). B.2., C.16., C.17 and C.18.

[Rules 62-4.030, 62-4.050, 62-4.070(3), 62-4.090, 62-210.300(2), and 62-210.900, F.A.C.]

A. Facility-wide Specific Conditions

A.1. Hours of Operation - The hours of operation are not limited (8760 hours per year).
[Rule 62-210.200 ("Potential to Emit")]

A.2. Volatile Organic Compounds (VOC) or Organic Solvents (OS) Emissions - The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds (VOC) or organic solvents (OS) without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department. The facility shall comply with the following:

a. Tightly cover or close all VOC/OS containers when they are not in use.

b. Tightly cover, where possible, all open areas and tanks when they are not in use.

c. Maintain and operate all equipment, pipes, hoses, lids, fittings, etc., in such a manner as to minimize leaks, fugitive emissions and spills of VOC/OS materials.

d. Prevent excessive air turbulence across exposed VOC/OS.

e. Immediately confine and clean up VOC/OS spills and make sure wastes are placed in closed containers for reuse, recycling or proper disposal.

[Rules 62-4.070(3) and 62-296.320(1), F.A.C.; Construction Permit 1050388-002-AC]

A.3. Unconfined Emissions of Particulate Matter - In addition to the conditions in Appendix C, Condition 9, the following reasonable precautions shall be followed:

a. Paving roads and facility areas where vehicles travel.

b. Use of automated system to reduce the aggregates stored below the partition walls for the aggregate truck dump storage area.

c. Using conveyor enclosures.

d. Use of dust collector system to capture and contain particulate matter (from the five cement / cement supplements silos) within the building.

*Permitting Note**:** If operating experience indicates that these reasonable precautions are not sufficient to control unconfined emissions, the Department reserves the right to require additional measures.*

[Rules 62-296.414(2) and 62-296.320(4)(c), F.A.C.; Construction Permit 1050388-002-AC]

A.4. Fugitive Emissions Opacity Standard – As an indicator that the precautions to control unconfined particulate matter emissions as required by Specific Condition No. A.3. are adequate, emission of unconfined particulate matter from the facility shall not exceed 10% opacity. If this value is exceeded, it shall not be a violation in and of itself, but an indication that additional control precautions and/or work practices may be necessary.
[Rule 62-4.070(3), F.A.C.; Construction Permit 1050388-002-AC]

A. Facility-wide Specific Conditions

A.5. Records Retention – All monthly records shall be completed by the end of following month. All records required by this permit shall be maintained at the facility for at least three years, unless otherwise noted, and be made available to the Department for inspection upon request.
[Rules 62-4.070(3) and 62-4.160(14)(b), F.A.C.]

B. EU No. 002 Pipe Forming and Coating

This section of the document addresses the following emissions unit.

ID No.	Emission Unit Description
002	The concrete is formed into various pipe sizes using molding forms (jackets and cores). To construct a pipe, a wire cage is placed on a pallet, which forms the bell end of the pipe. Concrete release (form oil) is applied to the pallets via spray application to avoid sticking by the concrete. The concrete release is transferred from bulk storage tanks located inside the building to automatic spray applicators. Next, the pallet and cage are placed inside the jacket and lowered onto the core. Using vibration and gravity, concrete is placed into the mold. When the mold contains a sufficient amount of concrete, the pipe machine will begin the next step by pressing the header to form the spigot end of the pipe. Additionally, concrete release is applied to the header via a dip-coating method to avoid sticking by the concrete, prior to the pressing. The jacket and formed pipe are then removed from the core. The uncured pipe is then placed for curing onto the curing chamber trolley system. Upon curing, the pipe is deburred, pressure tested, and a portion of each pipe is stenciled, primarily as a means of identification or branding. In addition, some customers request that a coating be applied to the pipe in order to reduce friction of the conveyed water and to aid in the installation of the pipe in the field. The fugitive emissions from the concrete release and coating materials include VOCs and HAPs. (The north and south production lines of the plant each have a 500-gallon bulk concrete release tank and one 900-gallon dip tank.)

EMISSIONS STANDARDS

B.1. Permitted Capacity - In order to establish the facility as a synthetic non-Title V minor source of VOC and HAP emissions, the following emission limits shall apply:

Pollutant	Annual Emissions (Tons per any consecutive 12 month period)
VOC	90.0
Any Individual HAP*	8.0
Total HAPs	20.0

* Individual HAPs include but are not limited to Glycol Ether, Ethylbenzene and Xylene.

[Rule 62-210.200, F.A.C. ("Potential to Emit"); Construction Permit 1050388-002-AC]

RECORDS AND REPORTS

B.2. Monthly Recordkeeping - The permittee shall maintain monthly records to document compliance with Specific Condition No. B.1. The records shall include, but are not limited to, the following:

a. Facility Name and ID, Emission Unit No. (002), Month and Year.

b. List by name or identification number, all forming oil, coating materials or other VOC/HAP containing material used in association with the pipe forming and coating process that was received during the month. Include the amount of each material received, in gallons.

c. List for each material listed in item b. from the MSDS of the material, or other acceptable documentation of the material (lbs/gal):

   1. VOC content
   2. HAP content for each Individual HAP

d. Calculate the VOC and each Individual HAP emissions (lbs), using the following general equations:

   1. VOC Emissions (lbs) = Quantity received (gal) x VOC Content (lbs/gal)
   2. HAP Emissions (lbs) = Quantity received (gal) x HAP Content (lbs/gal)

e. Summarize for the most recent month (lbs or tons):

   1. VOC emissions
   2. Individual HAP emissions
   3. Total HAP emissions

f. Summarize recent consecutive 12-month period (lbs or tons):

   1. VOC emissions
   2. Individual HAP emissions
   3. Total HAP emissions

Records of all calculations and supporting documentation ("As Supplied", "As Applied" records, MSDS Sheets, EPA data sheets, etc.) shall be kept for each forming oil, coating material, solvent, or other VOC/HAP containing material used in association with the manufacturing process which includes sufficient information to determine VOC and HAP emissions.
[Rule 62-4.070(3), F.A.C.; Construction Permit 1050388-002-AC]

C. EU No. 003 Portable Concrete Crushing System

This section of the document addresses the following emissions unit.

ID No.	Emission Unit Description
003	Portable Concrete Crushing System - This emission unit consists of a portable diesel-fired concrete crusher to be operated on-site by a third party as needed to aid in the removal of waste concrete from the facility.

PERFORMANCE RESTRICTIONS

C.1. Federal Regulatory Requirements -

a. If a portable concrete crushing system used at this plant is not subject to the attached Title 40, Code of Federal Regulations (CFR), Part 60, Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants (see Appendix E.) and the attached general provisions of 40 CFR 60, Subpart A (see Appendix F.), where applicable, then Specific Conditions C.5., C.7.- C.15, C.17. and C.18.f. do not apply.

b. If a portable concrete crushing system used at this plant is subject to the attached Title 40, Code of Federal Regulations (CFR), Part 60, Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants (see Appendix E.) and the attached general provisions of 40 CFR 60, Subpart A (see Appendix F.), where applicable, then all of the following specific conditions apply.

[Rule 62-4.070(3); 40 CFR 60, Subparts A and OOO]

C.2. Florida Air Permit Requirement - Every portable concrete crushing system operated at this facility shall have a valid Florida Air General Permit or a non-Title V relocatable air operation permit. While on site, any portable crushing system is also subject to all the terms and conditions contained in this document.
[Rule 62-4.070 (3) F.A.C.]

C.3. Permitted Capacity - This emission unit is limited to the following operating parameters:

EU ID No.	Brief Description	Maximum Throughput of Waste Concrete (tons/any consecutive 12-month period)	Operating Hours (hours/year)
005	Portable Concrete Crushing System*	195,000	975

*Only one concrete crushing system can be operated at this site at any one time.

[Rules 62-210.200 ("Potential to Emit") and 62-297.310(2), F.A.C.; as requested by permittee in operation permit application received 08/16/2010]

C.4. Maximum Emission Points - The crushing system located with this facility shall not have more emission points and specific pieces of equipment than shown in the Table below. (See Appendix G. for a flow diagram showing the maximum number of emission points of the Concrete Crushing System)

Emission Point No.	Brief Description
11	Hopper Inlet
1	Hopper to Crusher Conveyor
2	Crusher Inlet
3	Crusher to Screen Conveyor
4	Screen Conveyor to Screen
5	Screen to Return Conveyor "1"
6	Return Conveyor "1" to Return Conveyor "2"
7	Return Conveyor "2" to Hopper
8	Screen to Large Aggregate Conveyor
9	Screen to Small Aggregate Conveyor "1"
10	Small Aggregate Conveyor "1" to Small Aggregate Conveyor "2"
12	Large Aggregate Conveyor to Course Storage Pile
13	Small Aggregate Conveyor "2" to Fine Storage Pile

[Rule 62-210.200 ("Potential to Emit"), F.A.C.]

EMISSIONS STANDARDS

C.5. Visible Emissions (VE) Limitations - Each emission point associated with this emission unit shall comply with the following maximum visible emission limitations:

Emission Point No.	Brief Description	Max.VE Limit (% Opacity)[1]	Max.VE Limit (% Opacity)[2]
11	Hopper Inlet	<20	<20
1	Hopper to Crusher Conveyor	10	7
2	Crusher Inlet	15	12
3	Crusher to Screen Conveyor	15	12
4	Screen Conveyor to Screen	10	7
5	Screen to Return Conveyor "1"	10	7
6	Return Conveyor "1" to Return Conveyor "2"	10	7
7	Return Conveyor "2" to Hopper	10	7

8	Screen to Large Aggregate Conveyor	10	7
9	Screen to Small Aggregate Conveyor "1"	10	7
10	Small Aggregate Conveyor "1" to Small Aggregate Conveyor "2"	10	7
12	Large Aggregate Conveyor to Course Storage Pile	<20	<20
13	Small Aggregate Conveyor "2" to Fine Storage Pile	<20	<20

[1] For crushers and affected pieces of equipment (e.g., screens) that commenced construction, modification or reconstruction after 8/31/1983, but before 4/22/2008.

[2] For crushers and affected pieces of equipment (e.g., screens) that commenced construction, modification or reconstruction on or after 4/22/2008.

Permitting Note: Visible emissions from the transfer of material into the hopper and onto the coarse and fine storage piles are covered under the facility-wide visible emission limitation of 20%. These transfer points do not require visible emission testing.

[Rules 62-210.200 ("Potential to Emit") and 62-296.320(4)(b), F.A.C.; 40 CFR 60.672(b) and (c)]

C.6. Unconfined Emissions of Particulate Matter - Unconfined emissions shall be controlled by using a water suppression system with spray bars located wherever unconfined emissions occur at the feeder, the entrance and exit of the crusher, the screen, and the conveyor drop points.
[Rule 62-296.320(4)(c), F.A.C.]

TESTING REQUIREMENTS

C.7. Visible Emissions Test Requirements - In order to determine compliance with the visible emission limitations of Specific Condition No. C.5. for each crushing system that is brought on-site, the permittee shall maintain on site either documentation of the most recent* annual visible emissions test that complies with the crushing system's General Permit or non-Title V relocatable air operation permit requirements prior to locating at this site (see Specific Condition C.8.) or shall test on-site according to Specific Conditions C.9. - C.11., below.

**Permitting Note: The most recent test shall not be older than the previous federal fiscal year.*

[Rule 62-4.070 (3) F.A.C.]

C.8. Off-Site Test Requirements - An off-site test may be accepted by the Department provided the required documentation listed in Specific Condition C.14., below can be provided to the Compliance Authority with the test report required in Specific Condition C.15., below. In addition, the crushing

C.8. (*continued)*

system must have been tested while operating with the same or more emission points and equipment that will be operating while on-site. If an off-site visible emissions test is used to demonstrate compliance with Specific Condition No. C.5., the crusher shall not be operated at rates greater than 110% of the actual processing rate measured during that test.
[Rule 62-4.070 (3) F.A.C.]

C.9. On-Site Test Requirements – If adequate documentation as required by Specific Condition No. C.7. is not available, the permittee shall test Emission Point Nos. 1 through 10 (as applicable) for visible emissions as soon as possible but no later than 30 days of placing the crushing system into operation after the effective date of this permit. Once tested, the crushing system may not operate in a configuration that has more pieces of equipment and/or emission points than were operating during the test unless a new compliance test is conducted with the greater number of pieces of equipment and/or emission points. In no case shall the pieces of equipment and/or emission points exceed those in Specific Condition No. C.4. If the crusher remains on-site, the crushing system shall be tested for visible emissions annually during each federal fiscal year (October 1 – September 30) the crushing system is on-site.
[Rules 62-4.070(3) and 62-297.310 (7)(a), F.A.C.]

C.10. Visible Emission Testing Requirements - On-site visible emission testing shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit and shall also comply with the following:

a. The minimum distance between the observer and the emission source shall be 15 feet.

b. The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.

c. The duration of the Method 9 observations must be 30 minutes (five 6-minute averages). Compliance with Specific Condition C.5., must be based on the average of the five 6-minute averages.

d. As an alternative to the Method 9 requirement to conduct visible emission observations of only one emission point at a time, a single visible emission observer may conduct visible emission observations for up to three fugitive, stack, or vent emission points within a 15-second interval if the following conditions are met:

   (1) No more than three emission points may be read concurrently.

   (2) All three emission points must be within a 70 degree viewing sector or angle in front of the observer such that the proper sun position can be maintained for all three points.

C.10. (*continued)*

(3) If an opacity reading for any one of the three emission points equals or exceeds the applicable standard, then the observer must stop taking readings for the other two points and continue reading just that single point.

[Rules 62-297.310(4), and 62-297.401, F.A.C.; 40 CFR 60.675 (c) and (e)(2)]

C.11. Test Method(s) - Required tests shall be performed in accordance with the following reference method(s).

Method(s)	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above method(s) are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other method(s) may be used unless prior written approval is received from the Department.

[Rules 62-204.800 and 62-297.401, F.A.C.; Appendix A-4 of 40 CFR 60]

MONITORING REQUIREMENTS

C.12. Monitoring Requirements - If any affected piece(s) of equipment of the Concrete Crushing System (i.e., crusher, screen or conveyor belt) was constructed, modified, or began reconstruction on or after April 22, 2008, a monthly inspection must be performed to check that water is flowing to discharge spray nozzles of the wet suppression system. The owner or operator must initiate corrective action within 24 hours and complete corrective action as expediently as practical if water is not flowing properly during the inspection.
[40 CFR 60, 60.674(b)]

NOTIFICATION REQUIREMENTS

C.13. On-Site Test Notification - The permittee shall notify the Compliance Authority in writing at least 15 days prior to any required on-site tests. The notification must include the following information: the date, time, and location of each test; the name and telephone number of the facility's contact person who will be responsible for coordinating the test; and the name, company, and the telephone number of the person conducting the test.

Permitting Note: The notification should also include the relevant emission unit ID No(s)., test method(s) to be used, and pollutants to be tested.

[Rules 62-4.070(3) and 62-297.310(7)(a)9., F.A.C.]

RECORDS AND REPORTS

C.14. On-Site Test Report Requirements - The permittee shall prepare and submit to the Compliance Authority reports for all required tests in accordance with the requirement specified in Appendix D (Common Testing Requirements) of this permit. The test report must include the following:

a. owner name;

b. General or non-Title V Air Operation Permit number (e.g., 7771234-XXX-AX);

c. manufacturer's maximum rated capacity for any material *(i.e. the rated TPH capacity of the material with the highest processing rate)*;

d. date each affected piece of equipment of the crushing system commenced construction, modification or reconstruction;

e. type of material processed;

f. actual material handling rate during the test period (tons/hour);

g. configuration of the crushing system during the test to include specific pieces of equipment, emission points and/or a process flow diagram; and

h. a copy of the logs as required by Specific Condition No. C.16. for the day and month the test was conducted.

[Rules 62-4.070(3) and 62-297.310(8), F.A.C.]

C.15. Off-Site Concrete Crushing System Test Reports - When demonstrating compliance with Specific Condition C.5. with an off-site visible emissions test, the permittee shall maintain a copy of the most recent VE test report for each crushing system that operated on site. The test reports must include the information specified in C.14. a.-g. above.
[Rule 62-4.070(3) F.A.C.]

C.16. Operation Records - In order to document compliance with Specific Condition No. C.3., the permittee shall record the following while the crushing system is on-site:

Daily:

a. facility name, facility ID No., emission unit ID No., crushing system owner's name, Florida General or non-Title V Air Operation Permit No., and any other identification information so each crushing system can be clearly distinguished from another crushing system;

b. hours of operation;

c. total concrete throughput (tons);

d. daily average throughput rate based on b. and c. above (tons/hour);

Monthly:

e. facility name, facility ID No. and emission unit ID No.;

C. 16. *(continued)*

f. hours of operation (for the month);

g. most recent consecutive 12-month rolling total hours of operation (hours/consecutive 12-month period);

h. total concrete throughput (for the month); and

i. most recent consecutive 12-month rolling total concrete throughput (tons/consecutive 12-month period).

Daily records shall be completed within 15 business days and monthly records shall be completed by the end of the following month.

[Rule 62-4.070(3), F.A.C.]

C.17. Monitoring Records - If any affected piece(s) of equipment of the Concrete Crushing System was constructed, modified, or began reconstruction on or after April 22, 2008, the owner or operator must record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken. *(see also Specific Condition C.12.)*
[40 CFR 60, 60.674(b)]

C.18. General Recordkeeping Requirements - The permittee shall keep records for each concrete crushing system operated on site as follows:

a. owner name;

b. General or non-Title V Air Operation Permit number(s) (e.g., 7771234-xxx-AX) and permit effective date(s);

c. dates on site;

d. manufacturer's maximum rated capacity for any material *(i.e. the rated TPH capacity of the material with the highest processing rate)*;

e. operating configuration while on-site to include specific pieces of equipment, emission points and/or a process flow diagram; and

f. date of most recent visible emissions test and a copy of the test report.

[Rules 62-4.070(3), F.A.C.]