

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOTICE OF FINAL PERMIT

In the Matter of an
Application for Permit by:

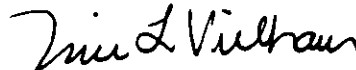
Mr. Ed Allsopp, V.P., Cement Operations
CSR Rinker Materials Corporation
1200 Northwest 137th Avenue
Miami, FL 33182

DEP File No. 0250014-016-AC, PSD-FL-324A
Production Increase, Revision of Emission Limits
Miami Cement Plant
Miami-Dade County

Enclosed is Final Permit Number 0250014-016-AC (PSD-FL-324A). This permit authorizes an increase in raw material feed, fuel use, and clinker production limits at the CSR Rinker Materials Corporation Miami Cement Plant located at 1200 NW 137th Avenue, Miami-Dade County. This permit also revises the air pollutant emission limits without triggering the requirements of Rule 62-212.400, F.A.C., Prevention of Significant Deterioration. This permit is issued pursuant to Chapter 403, Florida Statutes.

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 thirty days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida.



Trina Vielhauer, Chief
Bureau of Air Regulation

CERTIFICATE OF SERVICE

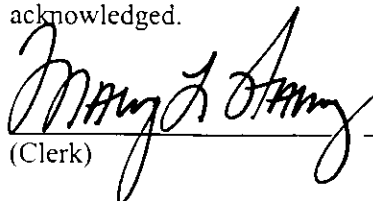
The undersigned duly designated deputy agency clerk hereby certifies that this Notice of Final Permit (including the Final permit) was sent by certified mail (*) and copies were mailed by U.S. Mail before the close of business on 12/30/04 to the person(s) listed:

Ed Allsopp, Rinker (*)
Mike Vardeman, Rinker
John Koogler, PhD., P.E., Koogler & Associates

H. Patrick Wong, Miami-Dade DERM
Laxmana Tallam, DEP, SED

Clerk Stamp

FILING AND ACKNOWLEDGMENT
FILED, on this date, pursuant to §120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.


(Clerk) 12/30/04 (Date)

FINAL DETERMINATION

File Nos. 0250014-016-AC (PSD-FL-324A)

Rinker Miami Cement Plant

On December 14, 2004, the Florida Department of Environmental Protection (Department) distributed an "Intent to Issue Air Construction Permit" for a proposed production increase at the CSR Rinker Materials Corporation located at 1200 Northwest 137th Avenue in Miami-Dade County. The package included one copy of the Department's draft air construction permit, the "Intent to Issue Air Construction Permit," the "Technical Evaluation and Preliminary Determination," and the "Public Notice of Intent to Issue Air Construction Permit."

The applicant published the "Public Notice" in the Miami Daily Review on December 14 and provided proof of publication to the Department on December 21.

On December 21, the Department received written comments regarding the draft construction permit from the applicant as discussed below. The Department did not receive comments from the public or any other agencies.

The following section summarizes the Department's response to the comments received and any resulting revisions.

COMMENTS/CHANGES

Comment from Dr. John Koogler on behalf of Rinker Regarding Induced Draft Fan(s): "The fan that Rinker is having problems with (the fan we discussed with you) is the main baghouse fan; not to be confused with the kiln I.D. fan. There are several references to this fan in the permit documents and I wanted to make sure there is no misunderstanding about which fan, or fan wheel, may have to be replaced. The permit language at the bottom of page 4 of 8 of the draft permit regarding the "I.D. fan" obviously refers to the kiln I.D.fan. This language is understood and is acceptable. I just want to make sure the replacement of baghouse fan is not confused with the potential replacement of the kiln I.D. fan - which may require additional permitting".

Response: The Department accepts Rinker's clarification that the problem induced draft fan is associated with the baghouse and not the preheater/kiln section. The Department will revise the drafted Condition 4.a. to read as follows:

Baghouse Induced Draft ~~I.D.~~ Fan: The permittee is authorized to replace components of the existing baghouse induced draft ~~I.D.~~ fan with functionally equivalent components. Also the fan blades may be "tipped" (extended) to improve performance. Optionally, the entire baghouse induced draft ~~I.D.~~ fan may be replaced with a functionally equivalent nominal 900 rpm induced draft fan.

Comment from Dr. Koogler Regarding Scrivener's Error in Rinker Statement: "The second matter is the correction of a scrivener's error in the Technical Evaluation and Preliminary Determination. On page 15 of 20, in the comment attributed to Mike Aller (7th line), the sentence beginning "Although there is ..." should read "Although there is "no" precise calculation.....". The word "no" was omitted and this omission changes the meaning of the entire CO discussion. I think this is apparent and should have no bearing on the draft permit or any conditions therein".

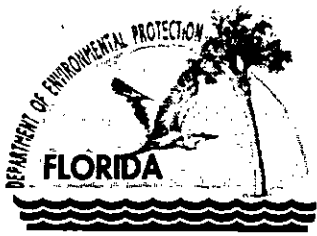
Response: The Department reviewed the electronic document received from Rinker and has determined that the scrivener's error is not on the part of the Department. The meaning of the statement does change when corrected. For the record the full sentence affected should read:

"Before entering the main stack, this gas stream mixes with the cooler vent gases as well as ambient air from various fresh air dampers. As a result, the CO concentration in the main stack is significantly lower than in the downcomer. Although there is no precise calculation relating downcomer CO and main stack CO, alarm points on downcomer CO could be installed to alert the operator that CO emissions are near the limit and that action is needed to correct the situation".

The correction changes the understanding given through Rinker's communication to the Department of the correlation between the downcomer CO concentration and CO exiting the stack. However, the relationship is still strong enough such that use of the downcomer CO process monitor in conjunction with the alarm and the margin of safety in the set point will provide reasonable assurance, though not certainty, of compliance with the permitted CO limitation. The plant has continuous emissions monitors systems (CEMS) for the gaseous pollutants of greatest concern, namely NO_x, SO₂ and VOC. The Department does not believe an in-stack CEMS for CO is required for this production increase. The process monitor and alarm will add to the level of compliance assurance provided by the required stack testing that will be conducted within 95 percent of permitted capacity.

CONCLUSION

The Department will issue the final permit with the single change to clarify that the baghouse induced draft fan may be repaired, tipped or replaced (with a like kind replacement) without requirement of a separate permit.



Department of Environmental Protection

Jeb Bush
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Colleen M. Castille
Secretary

PERMITTEE

Rinker Materials Corporation
1200 NW 137th Avenue
Miami, Florida 33182

Permit No. 0250014-016-AC
Expires: December 31, 2006
Miami Cement Plant
Production Capacity Increase

PROJECT AND LOCATION

This permit authorizes a production capacity increase and revises emission limits for the existing kiln and associated equipment at the Miami Cement Plant operated by Rinker Materials Corporation. The permit authorizes certain projects to reach and sustain the permitted production rate.

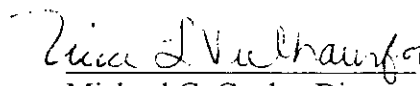
The existing plant is located in Dade County at 1200 Northwest 137th Avenue in Miami, Florida. The UTM coordinates are Zone 17; 558.20 km E; 2851.20 km N.

STATEMENT OF BASIS

This air construction permit is 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 perform the work and make the changes specified in accordance with the conditions of this permit and as described in the application, approved drawings, plans, and other documents on file with the Department. This permit supplements all other air construction and operation permits for the subject emissions unit and does not alter any requirements from such previously issued air permits unless otherwise specified.

APPENDICES

Appendix GC (General Conditions) is attached as part of this permit.



Michael G. Cooke, Director (Effective Date)
Division of Air Resource
Management

SECTION I. FACILITY INFORMATION

FACILITY DESCRIPTION

Rinker Materials Corporation operates the existing Miami Cement Plant located in Dade County, Florida. The facility consists of raw material handling and storage, a raw mill system, kiln system, clinker handling, finish grinding operations, cement handling, loading, and bagging operations, and coal handling and grinding operations. The key component is the kiln that is presently permitted at the following maximum production and process rates: 220 tons per hour of dry preheater feed materials; 137 tons per hour of clinker; and 437 MMBtu per hour of total heat input to the kiln system. The original air construction permit for the kiln is Permit No. 0250014-002-AC. The kiln first produced clinker in 2000 and currently operates under the provisions of Title V Air Operation Permit No. 0250014-009-AV.

PROJECT

The kiln system (Emissions Unit 018) is the key emission unit affected by this air construction permit. The project increases: the maximum process rate from 220 to 267 tons per hour (TPH) of preheater feed materials; the maximum production rate from 137 to 162 TPH of clinker; and total heat input to the pyroprocessing system from 437 to 485 million Btu per hour. During an authorized testing program, Rinker was able to achieve approximately 251 TPH of feed and 151 TPH of product with only operational process changes while complying with the proposed emission limits.

The project may include a number of physical changes such as equipment replacements, or upgrades to achieve and sustain the requested process and production rates.

REGULATORY CLASSIFICATION

Title III: The facility is a major source of hazardous air pollutants (HAP) based on the current Title V permit.

Title V: The facility is a major source of air pollution in accordance with Chapter 62-213, F.A.C.

PSD: The plant is an existing PSD-major facility in accordance with Rule 62-212.400 F.A.C.

NSPS: This facility operates units subject to the following New Source Performance Standards in 40 CFR 60 adopted and incorporated by reference in Rule 62-204.800, F.A.C.: Subpart A (General Provisions); Subpart F (Portland Cement Plants); Subpart Y (Coal Preparation Plants); and Subpart OOO (Nonmetallic Mineral Processing Plants).

NESHAP: This facility operates units subject to the following National Emission Standards for Hazardous Air Pollutants in 40 CFR 63 adopted and incorporated by reference in Rule 62-204.800, F.A.C.: Subpart A (General Provisions); and Subpart LLL (Portland Cement Manufacturing Industry).

RELEVANT DOCUMENTS

- Comments received on 12/21/04 from Dr. John Koogler on behalf of applicant.
- Intent to Issue Package, including Draft Permit and Technical Evaluation distributed 12/14/04.
- Application No. 0250014-016-AC received on 9/13/2004 and all related supporting information and correspondence to make the application complete.
- Air construction Permit No. 0250014-011-AC issued on 01/16/04 authorizing a temporary production capacity testing period. Project Nos. 0250014-012-AC, 0250013-012-AC, 0250014-014-AC, and 0250014-017-AC extended the temporary capacity testing period through 12/31/04.
- Air construction Permit No. 0250014-008-AC (PSD-FL-324) issued on 03/01/02 to conduct a BACT review for VOC and require the installation of a THC continuous emissions monitoring system.
- Air construction Permit No. 0250014-007-AC issued on 03/01/02 to remove the beryllium emissions limit.
- Original air construction Permit No. 0250014-002-AC issued on 09/11/97 for the kiln modernization project.

SECTION II. ADMINISTRATIVE REQUIREMENTS

GENERAL AND ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: The Permitting Authority for this project is the Florida Department of Environmental Protection's Bureau of Air Regulation located at 2600 Blair Stone Road, MS #5505, Tallahassee, Florida 32399-2400 and phone number 850/488-0114.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications should be submitted to: Air Quality Management Division, Miami-Dade County Department of Environmental Resources Management, 33 Southwest Second Avenue, Suite 900, Miami, Florida 33130-1540. Copies shall also be submitted to: Air Resource Section, Southeast District Office, Florida Department of Environmental Protection, 400 North Congress Avenue, West Palm Beach, Florida 33401 (Telephone: 561/681-6600).
3. General Conditions: The owner and operator are subject to, and shall operate under, the attached General Conditions listed in *Appendix GC* of this permit. General Conditions are binding and enforceable pursuant to Chapter 403, F.S. [Rule 62-4.160, F.A.C.]
4. Applicable Regulations, Forms and Application Procedures: Unless otherwise indicated in this permit, the construction and operation of this project 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.; Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296, and 62-297, F.A.C.; 40 CFR 60; and 40 CFR 63. The permittee shall use the applicable forms listed in Rule 62-210.900, F.A.C. and follow the application procedures in Chapter 62-4, F.A.C. Issuance of this permit does not relieve the facility owner or operator from compliance with any applicable federal, state, or local permitting or regulations. [Rules 62-204.800, 62-210.300 and 62-210.900, F.A.C.]
5. Permit Expiration: For good cause, the permittee may request that this air construction permit be extended. Such a request shall be submitted to the Department's Bureau of Air Regulation at least sixty (60) days prior to the expiration of this permit. [Rules 62-4.070(4), 62-4.080, and 62-210.300(1), F.A.C.]
6. 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.]
7. Modifications: No emissions unit or facility subject to this permit shall be constructed or modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]
8. Title V Permit: This permit authorizes construction of the permitted emissions units and initial operation to determine compliance with Department rules. A Title V operation permit is required for regular operation of the permitted emissions unit. The permittee shall apply for a Title V operation permit at least 90 days prior to expiration of this permit, but no later than 180 days after commencing operation. To apply for a Title V operation permit, the applicant shall submit the appropriate application form, compliance test results, and such additional information as the Department may by law require. The application shall be submitted to the appropriate Permitting Authority with copies to the Compliance Authority. [Rules 62-4.030, 62-4.050, 62-4.220, and Chapter 62-213, F.A.C.]

Rinker Materials Corporation
AC
Miami Cement Plant
Increase

Air Permit No. 0250014-016-

Production Capacity

SECTION III. EMISSIONS UNIT SPECIFIC CONDITIONS

EU 018. Kiln System

The proposed project affects the following existing emissions unit:

ID No.	Emission Unit Description
018	In-Line Kiln, Raw Mill and Clinker Cooler

ADMINISTRATIVE REQUIREMENTS

- 1. **Previous Permit Conditions:** This permit authorizes a production increase from the kiln and associated equipment. As indicated herein, the following conditions are in addition to, or replace, those of the previous air construction permits. Unless otherwise specified, the emissions unit remains subject to all applicable conditions from previous air construction permits. [Rule 62-4.070(3), F.A.C.]

CONSTRUCTION ACTIVITIES

- 2. **Fly Ash Injection to Precalciner:** The permittee is authorized to install equipment necessary to inject fly ash into the precalciner. Within 60 days of selecting the final vendor for this project, the permittee shall submit the final design specifications. Before initiating construction activities related to fly ash injection into the precalciner, the permittee shall provide the following information: maximum LOI of the fly ash; monitoring equipment for determining the fly ash injection rate; and the method for determining the clinker production rate when injecting fly ash into the precalciner. [Application No. 0250014-016-AC; Rule 62-4.070(3), F.A.C.]
- 3. **CO Process Alarm:** The permittee shall add a control room alarm to the existing CO emissions process monitor to alert operators of elevated CO emissions. The alarm shall be set to activate when the process monitor records CO emissions of 1,200 ppmv or more. When an alarm occurs, operators shall take appropriate corrective actions to return CO emissions below the alarm set point. For each incident of an alarm, the operator shall record the following in a written log: date and time of alarm; amount of time above the alarm level; highest concentration above the alarm level; corrective action taken to regain appropriate operating levels. [Rules 62-4.070(3) and 62-212.400(2)(g), F.A.C.]
- 4. **Other Potential Construction Activities:** The following projects are authorized to achieve and sustain the full operational level allowed by this permit.
 - a. **Baghouse Induced Draft Fan:** The permittee is authorized to replace components of the existing baghouse induced draft fan with functionally equivalent components. Also the fan blades may be "tipped" (extended) to improve performance. Optionally, the entire baghouse induced draft fan may be replaced with a functionally equivalent nominal 900 rpm induced draft fan.
 - b. **Calciner Modifications:** The permittee is authorized to modify the calciner to enhance the combustion efficiency (carbon burnout) by providing additional residence time.

The permittee shall submit a notification of commencement of construction within 30 days of beginning physical construction on either of the above projects.

{Permitting Note: Other unidentified projects such as replacement of the preheater/kiln induced draft fan with a larger unit; replacement or upgrade of the kiln drive; upgrade of the raw mill or addition of another mill; etc. may require additional permits. The permittee shall consult with the Department regarding the permitting requirements including PSD applicability for such projects.} [Application No. 0250014-016-AC]

SECTION III. EMISSIONS UNIT SPECIFIC CONDITIONS

EU 018. Kiln System

SPECIFIC CONDITIONS

5. Production Limits: The preheater dry feed rate shall not exceed 267 tons per hour (TPH, 1-hour average). The preheater dry feed rate is the mass of material (on a dry basis) entering the preheater/kiln as determined by the Pfister weighing/feeding system. The clinker production rate of the kiln shall not exceed 162 tons per hour (TPH, 1-hour average) and 1,300,000 tons during any consecutive 12 months. The clinker production rate shall be determined as a function of the preheater dry feed rate and a conversion factor (multiplier) for the kiln system of 0.607. Continuous operation is allowed (8760 hours per year) provided the annual clinker production limit is not exceeded.
[Applicant Request - Application No. 0250014-016-AC; Rule 62-210.200, F.A.C. (PTE)]
{Permitting Note: The above condition revises/replaces the previous 24-hr productions limits and the 12-month clinker limits specified in Condition B.4 of Permit No. 0250014-002-AC.}
6. Heat Input Limit: Fuels fired in the pyroprocessing system (kiln and precalciner) shall not exceed a total heat input rate of 485 MMBtu per hour and shall consist only of the fuels originally authorized in Permit No. 0250014-002-AC, as amended. The coal usage rate shall not exceed 18.7 tons per hour (TPH, 24-hour average) and the petroleum coke usage rate shall not exceed 16.3 tons per hour (TPH, 24-hour average). [Application No. 0250014-016-AC; Permit No. 0250014-002-AC; Rule 62-4.070(3), F.A.C.]
{Permitting Note: The above condition revises the maximum heat input rate, coal usage rate, and petroleum coke usage rate to the kiln system specified in Condition B.5 of Permit No. 0250014-002-AC.}
7. Fly Ash Injection Limit: Fly ash injection to the precalciner shall not exceed 35 tons per hour (TPH, 24-hour average). [Application No. 0250014-016-AC; Rule 62-4.070(3), F.A.C.]
8. Revised Emissions Limits: Emissions from the kiln system shall not exceed the limits specified in revised Table 2-1, attached. [Application No. 0250014-016-AC; Rules 62-4.070(3), 62-210.200(PTE), and 62-212.400(BACT), F.A.C.]
{Permitting Note: The permit limits in Table 1-2 were originally specified in Condition B.1 of Permit No. 0250014-002-AC. This table was subsequently revised by Permit Nos. 0250014-007-AC and 0250014-008-AC (PSD-FL-324). The revised Table 1-2 replaces the previously specified limits and revisions. No changes are made to the methods of compliance.}
9. Initial Testing at Increased Production Rate: Within 270 days of the effective date of this permit, the permittee shall conduct tests to demonstrate compliance with each emission standard specified in Table 1-2. A test report shall be submitted to the compliance authority within 45 days of completing the last required pollutant test. [Rules 62-4.070(3) and 62-297.310, F.A.C.]
10. Operating Rate During Initial Testing: Initial testing of emissions shall be conducted with the emissions unit operation at 95 to 100 percent of the maximum operation rate allowed by the permit. If it is impractical to test at 95 to 100 percent of the maximum operation rate allowed by this permit, testing may be conducted at less than 95 percent of the maximum operation rate; in this case, subsequent emissions unit operation is limited to 105 percent of the test load until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity.
[Rule 62-297.310(2), F.A.C.]

SECTION III. EMISSIONS UNIT SPECIFIC CONDITIONS

EU 018. Kiln System

11. Operating Rate During Subsequent Testing. After conducting a compliance test at 95 to 100 percent of the maximum operation rate allowed by this permit, the following applies: Unless otherwise stated in the applicable emission limiting standard rule, testing of emissions shall be conducted with the emissions unit operation at permitted capacity. Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impractical to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity. [Rule 62-297.310(2), F.A.C.]
12. Additional Dioxin/Furan Testing: Pursuant to 40 CFR 63.1349 (b)(4)(e), the owner or operator is required to repeat the dioxin/furan performance tests for kilns or in-line kiln/raw mills within 90 days of initiating any significant change in the feed or fuel from that used in the previous performance test. Changes in fly ash use practices including, but not limited to, use of increased loss-on-ignition fly ash or injection of fly ash into the calciner shall be considered significant changes within the purview of this requirement. [40 CFR 63, Subpart LLL and Rule 62-4.070(3), F.A.C.]
13. Relaxations of Restrictions on Pollutant Emitting Capacity. If a previously permitted facility or modification becomes a facility or modification which would be subject to the preconstruction review requirements of this rule if it were a proposed new facility or modification solely by virtue of a relaxation in any federally enforceable limitation on the capacity of the facility or modification to emit a pollutant (such as a restriction on hours of operation), which limitation was established after August 7, 1980, then at the time of such relaxation the preconstruction review requirements of this rule shall apply to the facility or modification as though construction had not yet commenced on it. [Rule 62-212.400(2)(g), F.A.C.]

APPENDIX GC
General Conditions

The permittee shall comply with the following general conditions from Rule 62-4.160, F.A.C.

- G.1 The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
- G.2 This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings or exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
- G.3 As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey and vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
- G.4 This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
- G.5 This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
- G.6 The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
- G.7 The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:
- (a) Have access to and copy and records that must be kept under the conditions of the permit;
 - (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit, and,
 - (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

- G.8 If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
- (a) A description of and cause of non-compliance; and
 - (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

APPENDIX GC
General Conditions

The permittee shall be responsible for any and all damages, which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

- G.9 In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
- G.10 The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
- G.11 This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 62-4.120 and 62-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
- G.12 This permit or a copy thereof shall be kept at the work site of the permitted activity.
- G.13 This permit also constitutes:
- (a) Determination of Best Available Control Technology (not applicable to project);
 - (b) Determination of Prevention of Significant Deterioration (not applicable to project); and
 - (c) Compliance with New Source Performance Standards (not applicable to project).
- G.14 The permittee shall comply with the following:
- (a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
 - (b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application or this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
 - (c) Records of monitoring information shall include:
 - 1. The date, exact place, and time of sampling or measurements;
 - 2. The person responsible for performing the sampling or measurements;
 - 3. The dates analyses were performed;
 - 4. The person responsible for performing the analyses;
 - 5. The analytical techniques or methods used; and
 - 6. The results of such analyses.
- G.15 When requested by the Department, the permittee shall within a reasonable time furnish any information required by law, which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

Revised Table 1-2. Air Pollutant Standards and Terms
Rinker Materials Corporation
Portland Cement Plant and Associated Equipment

Facility ID No. 0250014

 Air Permit No. 0250014-016-AC
 (Revision of Original Permit)

Emission Unit ID No. 018 - Kiln/Cooler/Raw Mill System (Dry Process Technology)

EU ID No.	Description	Pollutant ID	Fuels, [2]	Allowable Emissions [3], (5)		Equivalent Emissions TPY [4], (5)	Basis
				Permit Limits	lb/hr		
-018	Kiln/Cooler/Raw Mill	PM	coal/gas/WTDF/oil	0.152 lb/ton kiln _{ph} feed *	40.6	163	Avoid PSD
		PM ₁₀	coal/gas/WTDF/oil	0.121 lb/ton kiln _{ph} feed *	32.3	130	Avoid PSD
		SO ₂	coal/gas/WTDF/oil	0.50 lb/ton of clinker	81.0	325	Avoid PSD
		NO _x	coal/gas/WTDF/oil	4.0 lb/ton of clinker	648	2600	Avoid PSD
		CO	coal/gas/WTDF/oil	2.81lb/ton clinker	455	1827	Avoid PSD
		VOC	coal/gas/WTDF/oil	0.12 lb/ton clinker	19.4	78	PSD-BACT
		H ₂ SO ₄ mist	coal/gas/WTDF/oil	0.020 lb/ton clinker	3.24	13.0	Avoid PSD
		Mercury	coal/gas/WTDF/oil	1.4 x 10 ⁻⁶ lb/ton clinker	0.023	0.091	Avoid PSD
		Lead	coal/gas/WTDF/oil	3.0 x 10 ⁻⁶ lb/ton clinker	0.049	0.195	Avoid PSD
VE	coal/gas/WTDF/oil	10% opacity	---	---	NSPS		

ALLOWABLE OPERATING RATES

	Kiln/Cooler/Raw Mill		
Hours of operation per year	Hours	8760	
Kiln preheater feed rate (kiln _{ph})*	TPH	267	(1-hour average)
Kiln Heat Input	MMBtu/hr	485	(24-hour average)
Clinker Production [1]	TPH	162	(1-hour average)
Cooler throughput rate	TPH	162	(1-hour average)

NOTES

- [1] Based on the maximum preheater feed rate of 267 TPH and a conversion factor of 0.607, the maximum clinker production rate is 162 TPH.
 (267 TPH, kiln_{ph} x 0.607 = 162 TPH, clinker)
- [2] Fuel combustion as specified in Specific Condition No. B.5, and the protocols established by DERM. See also Specific Condition B.13.
- [3] Compliance Units. This facility shall demonstrate compliance based on these standards.
- [4] "Equivalent Emissions" represent annual emissions based on operation at the maximum permitted emissions and production rates. "Equivalent Emissions" are listed for informational purposes, PSD applicability, and recordkeeping/tracking purposes.
- [5] The original air construction permit for the kiln modernization project is Permit No. 0250014-002-AC. Table 1-2 was modified by Permit No. 250014-007-AC to remove the beryllium emissions limit. It was subsequently modified by Permit No. 250014-008-AC to: revise the SO₂ limit from 0.7 lb/MMBtu to 2.23 lb/ton of clinker (equivalent emissions); revise the NO_x emissions limit from 1.53 lb/MMBtu to 4.9 lb/ton of clinker (equivalent emissions); and revise the VOC emission limits from 0.1 to 0.12 lb/ton of clinker, 13.7 to 16.4 lb/hour, and 60 to 72 TPY (BACT).

Revised Table 1-2. Air Pollutant Standards and Terms
Rinker Materials Corporation
Portland Cement Plant and Associated Equipment

Facility ID No. 0250014

 Air Permit No. 0250014-016-AC
 (Revision of Original Permit)

Emission Unit ID No. 018 - Kiln/Cooler/Raw Mill System (Dry Process Technology)

EU ID No.	Description	Pollutant ID	Fuels, [2]	Allowable Emissions [3], (5)		Equivalent Emissions TPY [4], (5)	Basis
				Permit Limits	lb/hr		
-018	Kiln/Cooler/Raw Mill	PM	coal/gas/WTDF/oil	0.20 0.152 lb/ton kiln _{ph} feed *	44 40.6	193 163	Avoid PSD
		PM ₁₀	coal/gas/WTDF/oil	0.17 0.121 lb/ton kiln _{ph} feed *	37.40 32.3	164 130	Avoid PSD
		SO ₂	coal/gas/WTDF/oil	2.23 0.50 lb/ton of clinker	306 81.0	1340 325	Avoid PSD
		NO _x	coal/gas/WTDF/oil	4.9 4.0 lb/ton of clinker	671 648	2940 2600	Avoid PSD
		CO	coal/gas/WTDF/oil	3.04 2.81 lb/ton clinker	412 455	1807 1827	Avoid PSD
		VOC	coal/gas/WTDF/oil	0.12 lb/ton clinker	16.4 19.4	72 78	PSD-BACT
		H ₂ SO ₄ mist	coal/gas/WTDF/oil	0.014 0.020 lb/ton clinker	1.92 3.24	8.4 13.0	Avoid PSD
		Mercury	coal/gas/WTDF/oil	2.4 14.0 x 10 ⁻⁵ lb/ton clinker	0.0033 0.023	0.014 0.091	Avoid PSD
		Lead	coal/gas/WTDF/oil	7.5 30.0 x 10 ⁻⁵ lb/ton clinker	0.01 0.049	0.045 0.195	Avoid PSD
VE	coal/gas/WTDF/oil	10% opacity	---	---	NSPS		

ALLOWABLE OPERATING RATES

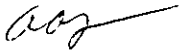
		Kiln/Cooler/Raw Mill	
Hours of operation per year	Hours	8760	
Kiln preheater feed rate (kiln _{ph})*	TPH	220 267	(1-hour average)
Kiln Heat Input	MMBtu/hr	437 485	(24-hour average)
Clinker Production [1]	TPH	437 162	(1-hour average)
Cooler throughput rate	TPH	437 162	(1-hour average)

Florida Department of
Environmental Protection

Memorandum

TO: Michael Cooke

THRU: Trina Vielhauer

FROM: A. A. Linero 

DATE: December 29, 2004

SUBJECT: CSR Rinker Materials Cement Plant – Miami-Dade County
Production Increase and Emission Limit Revisions
DEP File No. 0250014-016-AC (PSD-FL-324A)

The Final Permit for this project is attached for your approval and signature. This permit authorizes:

- Increasing the clinker production rate at Rinker's Miami Cement Plant from 137 tons per hour (TPH) on a daily basis to 162 TPH on an hourly basis and the annual clinker production limit from 1,200,000 tons per year (TPY) to 1,300,000 TPY.
- Lowering the 24-hr NO_x limitation from 4.9 to 4.0 pounds per ton of clinker (lb/ton).
- Lowering annual NO_x emissions from 2,940 to 2,600 TPY.
- Lowering the 24-hr SO₂ limitation from 2.23 to 0.50 lb/ton.
- Lowering annual SO₂ emissions from 1,340 to 325 TPY.
- Revising other emission limitations to avoid significant increases in allowable annual emissions.

In real terms, we found that actual mass emissions of NO_x remained the same (~ 370 lb/hr) at production levels greater than presently permitted while mass per unit of product decreased from 3.0 to 2.6 lb/ton of clinker. Some of the other pollutants followed similar, though less pronounced trends.

The dry process kiln system started up in 2000 when the old wet process kilns were shut down. The rules allow a recalculation of contemporaneous emissions increases and decreases over a period of five years. The result is that the emission decreases from shutting down the old kilns are great enough to allow the dry kiln and its production increase to net out of PSD for all but one pollutant. We are keeping the BACT of 0.12 lb VOC/ton and the CEMS requirement that were set in 2002.

I recommend your approval of the attached permit.

Attachments

TLV/aal

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
 Mr. Ed Allsopp, V.P., Cement
 Operations
 CSR Rinker Materials Corporation
 1200 Northwest 137th Avenue
 Miami, Florida 33182

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 Addressee
 B. Received by (Printed Name) C. Date of Delivery
 Kelly Gubara 1-4-05
 D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

2. Article Number (Transfer from service label) 7000 1670 0013 3109 9267

7000 1670 0013 3109 9267

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Mr. Ed Allsopp, V.P., Cement Operations
 CSR Rinker Materials Corporation
Street, Apt. No., or PO Box No.
 1200 Northwest 137th Avenue
 Miami, Florida 33182