

In the Matter of an
Application for Permit Modification by:

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

DEP File No. 0250014-006-AC
Dade County

INTENT TO ISSUE AIR CONSTRUCTION PERMIT MODIFICATION

The Department of Environmental Protection (Department) gives notice of its intent to issue an air construction permit modification (copy of DRAFT Permit Modification attached) for the proposed permit revisions, detailed in the application specified above, for the reasons stated below.

The applicant, Rinker Materials Corporation (RMC), applied on September 30, 1997 to the Department of Environmental Protection for modification of certain conditions in its air construction permit related to use of solid waste, tires, and used oil as fuels at the planned cement plant reconstruction project located at 1200 NW 137th Avenue in Miami, Dade County.

The Department has permitting jurisdiction under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, and 62-212. The above actions are not exempt from permitting procedures. The Department has determined that a permit modification is required to revise the conditions of the approved air construction permit for the reconstruction project at the described facility.

The Department intends to issue this air construction permit modification based on the belief that reasonable assurances have been provided to indicate that operation of these emission units will not adversely impact air quality, and the emission units will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C.

Pursuant to Section 403.815, F.S., and Rule 62-103.150, F.A.C., you (the applicant) are required to publish at your own expense the enclosed "PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT MODIFICATION". The notice shall be published one time only within 30 (thirty) days in the legal advertisement section of a newspaper of general circulation in the area affected. For the purpose of these rules, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. Where there is more than one newspaper of general circulation in the county, the newspaper used must be one with significant circulation in the area that may be affected by the permit modification. If you are uncertain that a newspaper meets these requirements, please contact the Department at the address or telephone number listed below. The applicant shall provide proof of publication to the Department's Bureau of Air Regulation, at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, Florida 32399-2400 (Telephone: 904/488-1344; Fax 904/ 922-6979) within 7 (seven) days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit modification pursuant to Rule 62-103.150 (6), F.A.C.

The Department will issue the FINAL Permit Modification, in accordance with the conditions of the enclosed DRAFT Permit Modification unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions.

The Department will accept written comments concerning the proposed DRAFT Permit Modification issuance action for a period of 14 (fourteen) days from the date of publication of "PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT MODIFICATION." Written comments should be provided to the Department's Bureau of Air Regulation, 2600 Blair Stone Road, Mail Station #5505, Tallahassee, Florida 32399-2400. Any written comments filed shall be made available for public inspection.

NOTICE TO BE PUBLISHED IN THE NEWSPAPER

The Department will issue FINAL Permit Modification with the conditions of the DRAFT Permit Modification unless a timely petition for an administrative hearing is filed pursuant to Sections 120.569 and 120.57 F.S. Mediation is not available for this action.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57 F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000, telephone: 904/488-9370, fax: 904/487-4938. Petitions must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. A petitioner must mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57 F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-5.207 of the Florida Administrative Code.

A petition must contain the following information: (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the Department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by petitioner, if any; (e) A statement of the facts that the petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement identifying the rules or statutes that the petitioner contends require reversal or modification of the Department's action or proposed action; and (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take with respect to the Department's action or proposed action addressed in this notice of intent.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice of intent. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

A complete project file is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Department of Environmental Protection
Bureau of Air Regulation
111 S. Magnolia Drive, Suite 4
Tallahassee, Florida, 32301
Telephone: 904/488-1344
Fax: 904/922-6979

Dade County Department of
Environmental Resources Mgmt
33 SW Second Avenue, Suite 900
Miami, Florida 33130-1540
Telephone: 305/372-6925
Fax: 305/372-6954

Department of Environmental Protection
Southeast District Office
400 North Congress Avenue
West Palm Beach, Florida 33401
Telephone: 407/681-6600
Fax: 407/681-6755

The complete project file includes the original permit file, Draft Permit Modification, the application, and the information submitted by the responsible official, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Administrator, New Resource Review Section at 111 South Magnolia Drive, Suite 4, Tallahassee, Florida 32301, or call 904/488-1344, for additional information.

If written comments received result in a significant change in this DRAFT Permit Modification, the Department shall issue a Revised DRAFT Permit Modification and require, if applicable, another Public Notice.

The Department will issue the permit modification with the attached conditions unless a timely petition for an administrative hearing is filed pursuant to Sections 120.569 and 120.57 F.S. Mediation is not available for this action.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57 F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000, telephone: 904/488-9730, fax: 904/487-4938. Petitions must be filed within 14 (fourteen) days of publication of the public notice or within 14 (fourteen) days of receipt of this notice of intent, whichever occurs first. A petitioner must mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57 F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-5.207 of the Florida Administrative Code.

A petition must contain the following information: (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the Department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by petitioner, if any; (e) A statement of the facts that the petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement identifying the rules or statutes that the petitioner contends require reversal or modification of the Department's action or proposed action; and (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take with respect to the action or proposed action addressed in this notice of intent.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice of intent. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

In addition to the above, a person subject to regulation has a right to apply for a variance from or waiver of the requirements of particular rules, on certain conditions, under Section 120.542 F.S. The relief provided by this state statute applies only to state rules, not statutes, and not to any federal regulatory requirements. Applying for a variance or waiver does not substitute or extend the time for filing a petition for an administrative hearing or exercising any other right that a person may have in relation to the action proposed in this notice of intent.

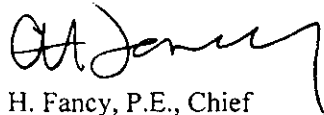
The application for a variance or waiver is made by filing a petition with the Office of General Counsel of the Department, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. The petition must specify the following information: (a) The name, address, and telephone number of the petitioner; (b) The name, address, and telephone number of the attorney or qualified representative of the petitioner, if any; (c) Each rule or portion of a rule from which a variance or waiver is requested; (d) The citation to the statute underlying (implemented by) the rule identified in (c) above; (e) The type of action

requested; (f) The specific facts that would justify a variance or waiver for the petitioner; (g) The reason why the variance or waiver would serve the purposes of the underlying statute (implemented by the rule); and (h) A statement whether the variance or waiver is permanent or temporary and, if temporary, a statement of the dates showing the duration of the variance or waiver requested.

The Department will grant a variance or waiver when the petition demonstrates both that the application of the rule would create a substantial hardship or violate principles of fairness, as each of those terms is defined in Section 120.542(2) F.S., and that the purpose of the underlying statute will be or has been achieved by other means by the petitioner.

Persons subject to regulation pursuant to any federally delegated or approved air program should be aware that Florida is specifically not authorized to issue variances or waivers from any requirements of any such federally delegated or approved program. The requirements of the program remain fully enforceable by the Administrator of the EPA and by any person under the Clean Air Act unless and until the Administrator separately approves any variance or waiver in accordance with the procedures of the federal program.

Executed in Tallahassee, Florida.



C. H. Fancy, P.E., Chief
Bureau of Air Regulation

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this INTENT TO ISSUE AIR CONSTRUCTION PERMIT MODIFICATION (including the PUBLIC NOTICE, and the DRAFT Permit Modification) was sent by certified mail (*) and copies were mailed by U.S. Mail before the close of business on 2-12-98 to the person(s) listed:

James S. Jenkins, III, RMC *
Brian Beals, EPA
John Bunyak, NPS
John Koogler, P.E.
Ewart L. Anderson, DERM
Isidore Goldman, SED

Clerk Stamp

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

Ken Joben 2-12-98
(Clerk) (Date)

TECHNICAL EVALUATION
AND
PRELIMINARY DETERMINATION

RINKER MATERIALS CORPORATION
MIAMI, DADE COUNTY, FLORIDA

Portland Cement Manufacturing Facility
Modernization and Expansion Project
Revision of Solid Waste Conditions

Permit No. 0250014-006-AC

Department of Environmental Protection
Division of Air Resources Management
Bureau of Air Regulation

February 5, 1998

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

Rinker Materials Corporation
Portland Cement Manufacturing Facility

Permit No. 0250014-003-AC
Facility ID No.: 0250014

I. APPLICANT NAME AND ADDRESS

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

II. FACILITY INFORMATION

A. FACILITY LOCATION

Rinker Materials Corporation (RMC) plans to modernize the existing Miami Cement plant by replacing the wet -process cement plant with a 1.2 million TPY clinker dry-process cement production line [137 ton of clinker per hour (TPH)] at its existing Miami cement facility.

This site is approximately 8.2 kilometers to the Everglades National Park, a Class I PSD Area, and in an ozone (O₃) maintenance areas in Dade County. The USGS Hialeah SW quadrangle map, and a map of the Everglades National Park were compared. The northeast corner of the Park, bounded by U.S. 41 to the North and Levee No.31N to the east, is the nearest point to the Rinker facility. The UTM coordinates of this facility are Zone 17, 558.20 East and 2851.20 km North.

B. FACILITY CLASSIFICATION CODE (SIC)

Major Group No. 32, Clay, Glass, and Concrete Products
Industry Group No. 324 Cement, Hydraulic
Industry No. 3241 Cement, Hydraulic

C. FACILITY CATEGORY

The Rinker Materials Corporation facility is classified as a major air pollutant emitting facility. As proposed, the revised project is not subject to New Source Review including provisions for the Prevention of Significant Deterioration of air quality (PSD) because the proposed modernized plant will result in less air pollution than the existing plant. This is primarily due to the lower fuel requirements per unit of product characteristic of the dry processes. Although there will be an increase in cement production capacity as a result of the proposed project, there will be a reduction in the emissions of most air pollutants.

Emissions decreases or less than significant increases with respect to PSD are expected for the following pollutants in tons per year (TPY): -108 TPY of sulfur dioxide (SO₂), +11.8 TPY of nitrogen oxides (NO_x), +9.8 TPY of particulate matter (PM), -163.3 TPY of particulate matter smaller than 10 microns (PM₁₀), +57.6 TPY of carbon monoxide (CO), +32.9 TPY of volatile organic compounds (VOC), and -13.4 TPY of sulfuric acid mist (SO₃). Slight reductions or insignificant increases are also expected in emissions of lead (Pb), mercury (Hg), and beryllium (Be).

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

Rinker Materials Corporation
Portland Cement Manufacturing Facility

Permit No. 0250014-003-AC
Facility ID No.: 0250014

III. PROJECT DESCRIPTION

The Department issued a permit to RMC on September 11, 1997 to modify the existing wet process plant by incorporating the modern dry process technology including a preheater and precalciner along with indirect firing. The dry process preheater/precalciner (PH/PC) kiln is the most fuel efficient cement pyroprocessing technology currently available. Thermal efficiencies will be improved with the PH/PC kiln and the amount of fuel combusted per ton of clinker produced is expected to be reduced.

The proposed modernized cement plant will be designed to produce up to 137 TPH of clinker (highest maintained rate over a day). The annual potential production rate will not exceed 1.2 million TPY of clinker. The major equipment will include a PH/PC kiln, a clinker cooler, raw mill, finish mill, silos, conveyers, and particulate control/dust collection and recycling equipment. The cement product will be stored in silos and shipped in bags or in bulk by rail or truck.

The currently permitted Rinker facility consists of a quarry, limestone crushing system, material receiving facilities both by rail and truck, open short-term material storage piles, a storage building for intermediate raw material and clinker storage, a soil dryer, two raw mills, kiln feed slurry system, two kilns, two coolers, five finish mills, four pack houses, thirty cement silos, a rail and truck bulk loadout facility, and, a liquid fuel tank farm.

The proposed plant modernization will include limestone crushing, limestone premixing and storage, raw grinding, blending and kiln feed, pyroprocessing, clinker storage, coal grinding, and additional finish mill and cement transport to existing silos. The existing quarry operation, soil dryer, five finish mills, packhouses, and , cement silos will remain in operation.

Equipment changes resulting from the change in kiln technology and plant modernization consist of the following:

- A new primary crushing facility will be constructed.
- A new raw materials handling system
- A new raw mill system and new raw meal handling and storage equipment will be constructed
- The existing two wet process cement kiln will be replaced with a single dry process kiln with a preheater and a precalciner
- The existing two clinker coolers will be replaced with a new single clinker cooler
- New clinker handling and storage equipment will be constructed
- A new coal/coke preparation system will be constructed. This will allow indirect firing of coal/coke.

The main raw materials will be limestone, clay, ash, iron ore from various sources and gypsum.

IV. PROCESS DESCRIPTION

A complete process description provided in the Technical Evaluation and Preliminary Determination issued for the modernization project on June 23, 1997.

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

Rinker Materials Corporation
Portland Cement Manufacturing Facility

Permit No. 0250014-003-AC
Facility ID No.: 0250014

V. FUEL CONSUMPTION

The main fuels to be burned in the kiln are coal and petroleum coke. Tires will also be burned as supplemental fuel for the heat and iron content. No. 2 fuel oil, residual fuel oil, on-spec and off-spec used oil will be used for startup and as supplemental fuels. The applicant proposes to use gas at any time. There are no plans to burn hazardous wastes. Solid waste materials such as booms and rags from spill cleanup, unused diapers, paper products, non-chlorinated plastic waste, and sewage sludge from Publicly Owned Treat Works (POTW). Tires and solid waste will not exceed 40 percent of the heat input value at any time.

Startup of the proposed cement kiln will be accomplished with oil or gas. Oil and gas will be combusted first at low utilization rates. Cold start-up requires approximately 24 hours until the kiln is ready to receive feed. Since oil or gas utilization rates during the entire startup period are less than fuel consumption rates at normal operating conditions and no product or coal is introduced to the kiln, emissions during start up period should be less than emissions under normal operation. No coal or product will be introduced into the kiln until optimum operating conditions are attained. Like the start-up period, coal and product feed begins at reduced rates, ramping up gradually to the final operating conditions.

Tires will not be fed until the kiln is hot enough to support proper combustion and the temperature maintained high enough to destroy dioxins and furans.

The revision in technology will add one primary emission source, the precalciner (PC). Fuel burned in the PC offsets some of the fuel requirement of the kiln. This new source of combustion is integral in the preparation of the raw material feed and the cement clinker production. The combined gross heat input to the PC and the kiln is 437 MMBtu/hr, to be fired on coal, natural gas, and/or tires or tire-derived fuel (start-up with natural gas, fuel oil, and/or on-spec used oil).

VI. PERMIT CHANGES REQUESTED

The changes requested by RMC are primarily related to the fuel use discussion above and to various operation parameters. The requested changes or clarifications are:

- That burning of non-hazardous solid waste, oil filters, booms and rags from spill cleanup, not be limited to items generated on site. The company wishes to burn the same materials from off-site generators.
- That the kiln exit temperature requirement of 1750 °F be deleted.
- That the halogen limit for on-specification used oil be increased from 1000 to 4000 ppm.
- Required use of an "F factor" to calculate combustion gas volume be replaced with the flow rate from a Continuous Stack Gas Flow Monitor (CSGFM).
- Deletion of requirement to spray tires with insecticides.

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

Rinker Materials Corporation
Portland Cement Manufacturing Facility

Permit No. 0250014-003-AC
Facility ID No.: 0250014

The request to delete the requirement to spray tires with insecticide is acceptable. It is now possible to obtain dry tires in closed vans and to keep them dry until they are fed into the kiln shelf. Deleting the requirement, means that the insecticide will not contribute to formation of air toxics such as hydrogen chloride or dioxins and furans. The affected Specific Condition B.30 will be revised accordingly.

VIII CONCLUSION

The conclusion of the Department is that the changes requested by RMC can be made with no impacts on air quality beyond those addressed in the original Technical Evaluation and Preliminary Determination.

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

Rinker Materials Corporation
Portland Cement Manufacturing Facility

Permit No. 0250014-003-AC
Facility ID No.: 0250014

VII. EVALUATION

A complete rule analysis was provided in the original Technical Evaluation and Preliminary Determination. The present analysis deals with rule applicability associated with the requested changes.

The materials described including the non-hazardous solid waste, oil filters, booms and rags from oil spills are readily destroyed at the very high kiln temperatures. Additionally, the precalciner is another combustion point which acts much like an afterburner by further incinerating incompletely burned gases emanating from the kiln. Metals from the combusted wastes are readily incorporated into the clinker. The low particulate emission limit, use of a baghouse and requirement to recycle all cement kiln dust will insure that excessive amounts of these materials or any other wastes will not be burned.

A new Specific Condition B.5 (1)d., will be added to clarify the Department's intent regarding the burning of municipal solid waste. This condition is based on the NSPS, Subpart Eb, 40 CFR 60, Subpart Eb, Section 60.50b., Applicability and Delegation of Authority. Section (b) of this paragraph states: "Any waste combustion unit at a medical, industrial, or other type of waste combustor plant that is capable of combusting more than 35 megagrams per day of municipal solid waste and is subject to a federally enforceable permit limiting the plantwide maximum amount of municipal solid waste that may be combusted to less than or equal to 10 megagrams per day is not subject to Subpart Eb if the owner or operator: (1) Notifies the Administrator of an exemption claim; (2) Provides a copy of the federally enforceable permit that limits the firing of municipal solid waste to less than 10 megagrams per day; and (3) Keeps records of the amount of municipal solid waste fired on a daily basis".

The Department will allow use of on-specification used oil containing up to 4000 ppm as long as Rinker can demonstrate that the excess halogens did not result from mixing hazardous waste into such oil. This is authorized by 40 CFR 279.10(b)(1)(ii). Use of such oil and the amounts used are already authorized through existing permits for the wet process plant where wasting of cement kiln dust is not prohibited. To an extent, some chlorides tie up alkali metals as potassium and sodium salts. From a practical point of view, use of oil with high chlorides will be limited by the need to meet cement specifications with no wasting of cement kiln dust and the need to control buildups of deposits on preheater and other surfaces. Dioxin formation potential is minimized by the very high temperatures of combustion followed by low temperatures required for baghouse operation.

The request to delete the 1750 degree kiln exit temperature condition is acceptable. These temperature requirements are logical for preheater kilns that do not have precalciner. In such cases it is possible for materials introduced into the kiln shelf to be incompletely combusted without such temperature requirements. The RMC kiln has a precalciner as mentioned above. Although the purpose is to calcine raw materials prior to their entry into the kiln, the device will insure that gases exiting the kiln will be reheated to a sufficiently high temperature without requiring a temperature limit at the kiln exit.

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March XX, 1998

CERTIFIED MAIL -RETURN RECEIPT REQUESTED

Mr. James S. Jenkins, III
Vice President of Cement Operations
Rinker Materials Corporation
1200 NW 137th Avenue
Miami, Florida 33182

Re: Cement Plant Modernization Project
File No. 0250014-006-AC - Permit Revisions

Dear Mr. Jenkins:

The Department has reviewed your request to revise certain specific conditions in the air construction permit for the Cement Plant Modernization Project as described in comments received by the Department on September 30, 1997 and a subsequent permit modification application received on November 12. The requests are related to the already-approved burning of solid waste and used oil, tire handling, and kiln operation. The details of the Department's analysis were discussed in the Technical Evaluation and Preliminary determination distributed with the Intent to Issue Air Construction Permit Modification. The permit is hereby modified as follows:

SPECIFIC CONDITION B.5 - FUEL COMBUSTION

- (1) Fuels fired in the pyroprocessing system (kiln and precalciner) shall not exceed a total heat input rate of 437 MMBtu/hr and shall consist only of:
- a. & b. are unchanged.
 - c. ~~Combustion of a~~ Non-hazardous solid waste, oil filters, booms and rags from spill clean up, ~~generated on site and sludge from publicly owned facilities.~~ This non-hazardous solid waste material shall only be used as supplemental fuel not as a start-up fuel.
 - d. ~~Combustion of non-hazardous solid waste (up to 30% of total heat input) may be used as supplemental fuel: unused diapers, papers products, non-chlorinated plastic waste, sewage sludge from publicly owned treatment works (POTW). This non-hazardous solid waste material shall be not be used as a start-up fuel.~~
 - d. Combustion of the following materials which are non-hazardous municipal solid waste (as defined in 40 CFR 60.51b. Subpart Eb) may be used as supplemental fuel: unused diapers, paper products, non-chlorinated plastic waste. The maximum amount of these wastes or materials that may be combusted shall not exceed 10 megagrams per day (900 pounds per hour). These non-hazardous wastes or materials shall be not be used as start-up fuel.

DRAFT

Mr. James S. Jenkins, III
Page 2 of 4
March XX, 1998

- e. The combined percent heat input from ~~tires, tire-derived fuel, and solid waste fuels described in b., c., and d. above~~ shall not exceed 40 percent of the total heat input (174.8 MMBtu/hr) from all fuels on a 24-hour basis.
- (2) Unchanged
- (3) Whole tires and tire-derived fuel along with the permitted non-hazardous solid waste material may be fed continuously at the kiln inlet at the base of the precalciner at a rate not to exceed 174.8 MMBtu/hr (40% of total kiln and precalciner fuel heat input) on a 24-hour basis.
- (4) Before initiating tire firing, the gases exiting the kiln shall reach a minimum temperature of 1400 degrees F for one hour and the oxygen level in the kiln, as measured at the cement plant induced draft fan, shall reach at least 3 percent (1-hour average). ~~Upon reaching steady-state conditions, and within 6 hours, gases exiting the kiln shall be maintained at an outlet temperature of at least 1750 degrees F.~~
- (5) The constituents and properties of the *on-spec used oil* shall comply with the following allowable concentration levels, as stipulated and defined in 40 CFR 279.10 (July 1, 1996 version), which is adopted by reference in Rule 62-730.181, F.A.C.

Constituent/Property	Allowable Concentration
Cadmium	2 ppm maximum
Arsenic	5 ppm maximum
Chromium	10 ppm maximum
Lead	100 ppm maximum
Total Halogens	1000 ppm maximum
Flash Point	140 100 degrees F minimum
Polychlorinated Byphenyls (PCBs)	Less than 2 ppm

Rinker has the option of having a total halogen concentration in the *on-specification used oil* of up to 4,000 ppm. The 4000 ppm limit is authorized by 40 CFR 279.10 (b) (1)(ii) if Rinker can demonstrate that the used oil does not contain halogens in excess of 1000 ppm as a result of the mixture of a hazardous waste. In the event that Rinker accepts such oil, Rinker shall demonstrate that the used oil does not contain hazardous waste (for example, by using an analytical method from SW-846, Edition III, to show that the used oil does not contain significant concentrations of halogenated hazardous constituents listed in appendix VIII of part 261 of 40 CFR chapter I).

SPECIFIC CONDITION B.11

The CEMS shall calculate and record emission rates in units of pounds of NO_x and SO₂ per hour. Clinker production rates shall be recorded daily. The permittee may establish a relationship between material feed rates and production rates of clinker if material feed rates are measured more accurately than clinker production rates and the relationship is accurate within 10%.

Every day, the 24-hour average NO_x and SO₂ emission rate for the previous day shall be calculated. Emissions shall be calculated in units of pounds per hour and pounds per ton of clinker. Daily averages are to be calculated as the arithmetic mean of each monitored operating hour. A monitored operating hour is each hour in which fuel is fired in the unit and at least two emission measurements are recorded at least 15

DRAFT

Mr. James S. Jenkins, III
Page 3 of 4
March XX, 1998

15 minutes apart. Data taken during periods of startup, or when fuel is not fired to the unit, or when the CEMS is not calibrated shall be excluded from the daily average.

For compliance with the emission limits in Table 1-2, the daily average shall not include data from periods of startup when no clinker is being produced. However, emissions during startup periods shall not exceed the pound per hour limits in Table 1-2. Data recorded during periods of shutdown, malfunction, load change, and continuous operating periods shall be included in the daily average.

To the extent the monitoring system is available to record emissions data, the CEMS shall be operated and shall record data at all operating hours when fuel is fired in the unit, including periods of startup, shutdown, load change, continuous operation and malfunction.

Monitor downtimes and excess emissions based on daily averages, which include startup emissions, shall be reported on a quarterly basis using the SUMMARY REPORT in 40 CFR 60.7. A detailed report of the cause, duration, magnitude, and corrective action taken or preventative measures adopted for each excess emission occurrence, and a listing of monitor downtime occurrences shall accompany the SUMMARY REPORT when the total duration of excess emissions is 1% or greater or if the monitoring system downtime is 5% or greater of the total monitored operating hours.

~~Mass emission rates (lb/hr, and lb/ton clinker) shall be calculated based on source specific and fuel specific F factors calculated using 40 CFR 60 Appendix A, Method 19. These F-factors shall be recalculated when fuel properties vary significantly from those used in the previously calculated F factors but not less than once per year.~~

The calculation of mass emission rates based on CEM data will incorporate data generated by a continuous stack gas flow monitor (CSGFM). This CSGFM shall be installed and certified, before the initial performance test, and calibrated, maintained and operated in compliance with 40 CFR 60, Appendix B, Performance Specification 6. Annual relative accuracy (RA) tests shall be conducted on the stack gas flow monitoring system.

SPECIFIC CONDITION B.20

A. In order to document compliance with Specific Condition No. B5(3) Tires:

(1) - (5) Unchanged.

B. In order to document compliance with the non-hazardous solid and municipal solid wastes conditions in Specific Condition No. B5(1) c., d., and e.:

(1) Recordkeeping when burning non-hazardous municipal solid waste shall be in compliance with NSPS, 40 CFR 60 .50b (b), Subpart Eb and Specific Condition No. B.5 (1) e. Records of the amount of municipal solid waste fired shall be kept on a daily basis.

(2) Recordkeeping when burning the solid waste specified in Specific Condition B.5(1) c shall be in compliance with Specific Condition No. B.5. (1) e. Records of the amount of solid waste fired shall be kept on a daily basis.

SPECIFIC CONDITION B.30

The Permittee shall not place waste tires on the ground. Waste tires shall be received in closed vans and stored in the vans until fed unloaded directly into the tire feeding hopper. Also, in order to control mosquitoes at the site, waste tires shall be sprayed with an insecticide prior to receipt at the facility.

DRAFT

Mr. James S. Jenkins, III
Page 4 of 4
March XX, 1998

SPECIFIC CONDITION B.35

The Permittee shall manage used oil and used oil filters generated or received at the facility in compliance with ~~Rule 62-710~~ Chapter 62-710, F.A.C. and 40 CFR 279.12.

A copy of this letter shall be attached to and be a part of Permit 0250014-002-AC.

Executed in Tallahassee, Florida.

Howard L. Rhodes, Director
Division of Air Resources
Management

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this INTENT TO ISSUE AIR CONSTRUCTION PERMIT MODIFICATION (including the PUBLIC NOTICE, and the DRAFT permit modification) was sent by certified mail (*) and copies were mailed by U.S. Mail before the close of business on _____ to the person(s) listed:

James S. Jenkins, III, RMC *
Brian Beals, EPA
John Bunyak, NPS
John Koogler, P.E.
Ewart L. Anderson, DERM
Isidore Goldman, SED

Clerk Stamp

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

(Clerk)

(Date)

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- 1. Addressee's Address
- 2. Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:
 James S. Jenkins III
 Printer Materials
 1200 NW 137th Ave
 Miami, FL 33182

4a. Article Number P 265 659 292

4b. Service Type
 Registered Certified
 Express Mail Insured
 Return Receipt for Merchandise COD

7. Date of Delivery 2/19/98

5. Received By: (Print Name)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Addressee or Agent)

X *[Handwritten Signature]*

PS Form 3811, December 1994

Domestic Return Receipt

Thank you for using Return Receipt Service.

P 265 659 292

US Postal Service
Receipt for Certified Mail

No Insurance Coverage Provided.
Do not use for International Mail (See reverse)

Sent to *James Jenkins*
 Street & Number *Printer Materials*
 Post Office, State, & ZIP Code *Miami FL*

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$

Postmark or Date
0250014-006 AC 2-12-98

PS Form 3800 April 1995