

State of Florida  
Department of Environmental Protection  
Notice of Permit

In the matter of an  
Application for Permit by:

DEP File No. AC 13-273887  
PSD-FL-230  
Dade County

Mr. Albert Townsend  
Director of Technical Services  
Tarmac Florida, Inc.  
455 Fairway Drive  
Deerfield Beach, Florida 33441

Enclosed is Permit Number AC 13-273887 (PSD-FL-230) and a Best Available Control Technology (BACT) determination for the construction of a Blast Furnace Slag Processing Operation at the existing Pennsuco Cement Plant located at 11000 N.W. 121 Way, Medley, Dade County, Florida 33178. This permit is issued pursuant to Section 403, Florida Statutes.

Any party to this Order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; 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 of Appeal must be filed within 14 days from the date this Notice is filed with the Clerk of the Department.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

*C. H. Fancy, P.E.*

C. H. Fancy, P.E., Chief  
Bureau of Air Regulation  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400  
904-488-1344

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed by certified mail before the close of business on 10-27-95 to the listed persons.

Clerk Stamp

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to §120.52(11), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

*Kurt Jahn*  
Clerk

10-27-95  
Date

Copies furnished to:

I. Goldman, SED  
P. Wong, DERM  
J. Harper, EPA  
J. Bunyak, NPS  
D. Buff, KBN

Final Determination

Tarmac Florida, Inc.  
Pennsuco Cement Plant  
Medley, Florida  
Dade County

Blast Furnace Slag Processing Operation

Department Permit No. AC 13-273887  
PSD-FL-230

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

October 27, 1995

## FINAL DETERMINATION

Tarmac Florida, Inc.  
AC 13-273887/PSD-FL-230

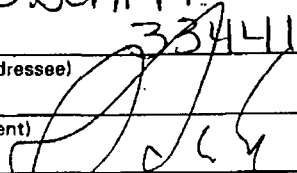
The Intent to Issue an air construction permit to Tarmac Florida, Inc. for a Blast Furnace Slag Processing Operation at the Pennsuco Cement Plant located at 11000 N.W. 121 Way, Medley, Dade County, Florida 33178, was distributed on September 13, 1995. The Notice of Intent to Issue was published in the Miami Herald on September 18, 1995. Copies of the evaluation were available for public inspection at the Dade County Department of Environmental Resources Management office in Miami and the Department offices in West Palm Beach and Tallahassee.

Written comments on the Department's Intent were submitted by the applicant's engineer in a letter dated October 19, 1995. A summary of the applicant's comments and the Department's responses follows.

1. As there is no data on air emissions from the drying of blast furnace slag, the applicant requested the particulate matter emission standard be established by stack tests. The maximum emission standard would not exceed 0.04 grains per dry standard cubic foot (gr/dscf) which is equivalent to 4.2 lbs/hr and 6.15 TPY. The applicant also requested that the visible emissions standard be set at 10 percent opacity and the annual PM/PM10 test be waived for the dryer and grinder baghouses if the visible emissions were no greater than 5 percent opacity. These requests are acceptable to the Department and the Best Available Control Technology (BACT) determination and Specific Conditions Nos. 5 and 15 are modified to incorporate these changes.
2. The applicant requested that use of a power washer or sweeper be allowed to control fugitive dust emissions from the yard. They also requested that "yard", which was vague, be replaced with slag storage area. These requests are acceptable to the Department and Specific Conditions Nos. 8A and 8D have been reworded to incorporate the requested changes.
3. The applicant noted that the current visible emissions standard for the cement silos is 20 percent opacity but they are willing to accept the 5 percent opacity standard specified in Specific Condition No. 9. No change was made to Specific Condition No. 9.
4. The applicant requested that the particulate matter emission standard for the grinder baghouse of 0.02 gr/dscf be changed to 0.01 gr/actual cubic foot (acf). The emissions in lbs/hr and TPY is not changed by this request. This change is acceptable to the Department and Specific condition No. 7 is revised as requested.

The final action of the Department will be to issue the construction permit and BACT as proposed except for the changes noted above.

Is your RETURN ADDRESS correct on the reverse side?

<b>SENDER:</b> • Complete items 1 and/or 2 for additional services. • Complete items 3, and 4a & b. • 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. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.	
3. Article Addressed to: Albert Townsend, DOTS Larnac Florida 455 Fairway Dr Deerfield Bch, FL 33441		4a. Article Number Z 127 632 561	
5. Signature (Addressee) 		4b. Service Type <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise	
6. Signature (Agent)		7. Date of Delivery 10/30/95	
		8. Addressee's Address (Only if requested and fee is paid)	

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PS Form 3811, December 1991 U.S. GPO: 1993-352-714 DOMESTIC RETURN RECEIPT

Z 127 632 561



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 No Insurance Coverage Provided  
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PS Form 3800, March 1993

To		Albert Townsend	
City and State		Larnac, Fla	
State and ZIP Code		Deerfield Bch, FL	
Postage	\$		
Certified Fee			
Special Delivery Fee			
Restricted Delivery Fee			
Return Receipt: Showing to Whom & Date Delivered			
Return Receipt: Showing to Whom, Date, and Addressee's Address			
TOTAL Postage & Fees	\$		
Postmark of Date		10-27-95	
AC 13-273667			
PSD-FI-230			



# Department of Environmental Protection

Lawton Chiles  
Governor

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

Virginia B. Wetherell  
Secretary

**Permittee:**  
Tarmac Florida, Inc.  
455 Fairway Drive  
Deerfield Beach, FL 33441

**Permit Number:** AC 13-273887  
(PSD-FL-230)  
**Expiration Date:** 07/01/96  
**Latitude/Longitude:** 25°52'26"  
80°22'27"  
**Project:** Blast Furnace Slag  
Processing Operation

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Chapters 62-212 and 62-4, Florida Administrative Code (F.A.C.). The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawings, plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

Construct a Blast Furnace Slag Processing Operation at the existing Pennsuco Cement Plant located at 11000 N.W. 121 Way, Medley, Dade County, Florida 33178. The UTM coordinates of this site are Zone 17, 562.8 km E and 2861.7 km N.

Major components of the proposed blast furnace slag processing operation are a new 10,000 gallon fuel storage tank and a used 150 ton per hour (TPH) asphalt dryer with a baghouse. The slag processing operation will use the Portland cement plant's existing Clinker Silos (Nos. 21, 22, 23, 26, 27, and 28 for dried slag storage), Cement Silos (Nos. 7, 8, and 9 for the ground slag storage), No. 4 Finish Mill, and Bulk Cement Loadout Units Nos. 1 and 2.

The emission units shall be constructed and operated in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:

1. Application received July 10, 1995.
2. DEP letter dated July 24, 1995.
3. KBN letter dated August 11, 1995.
4. KBN letter dated October 19, 1995.

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Permittee:  
Tarmac Florida, Inc.

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(PSD-FL-230)  
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### GENERAL CONDITIONS:

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, F.S. 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.

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, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in Subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any 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 of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.

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.

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 F.S. and Department rules, unless specifically authorized by an order from the Department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and 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.

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of

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Expiration Date: 07/01/96

**GENERAL CONDITIONS:**

credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:

- a. Have access to and copy any records that must be kept under 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.

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.

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.

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 F.S. or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and F.S. after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by F.S. or Department rules.



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Tarmac Florida, Inc.

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### GENERAL CONDITIONS:

11. This permit is transferable only upon Department approval in accordance with Rules 62-4.120 and 62-30.300, 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.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

- (X) Determination of Best Available Control Technology (BACT)
- (X) Determination of Prevention of Significant Deterioration (PSD)
- ( ) Compliance with New Source Performance Standards (NSPS)

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 for 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:
  - the date, exact place, and time of sampling or measurements;
  - the person responsible for performing the sampling or measurements;
  - the dates analyses were performed;
  - the person responsible for performing the analyses;
  - the analytical techniques or methods used;
  - the results of such analyses.

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Tarmac Florida, Inc.

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**SPECIFIC CONDITIONS:**

**General**

1. This permit incorporates all requirements of permit No. AO 13-238048 that are applicable to the No. 4 Finishing Mill; Clinker Silos Nos. 21, 22, 23, 26, 27, and 28; Cement Silos Nos. 7, 8, and 9; Bulk Cement Loadout Units 1 and 2, and all requirements of permit No. AC 13-234568 that are applicable to the conveyor systems handling the slag except as otherwise noted in any specific condition of this permit.

**Construction**

2. The No. 2 fuel oil storage tanks shall be constructed so that its maximum storage capacity is less than 40 cubic meters (10,568 gallons).

3. The blast furnace slag dryer stack shall have a minimum height of 20 feet and a cross sectional area of approximately 4 square feet. The stack shall be equipped with sampling facilities that comply with the requirements of Rule 62-297.345, F.A.C.

**Federal Requirements**

4. The permittee shall construct and operate the blast furnace slag processing operation so that it complies with the requirements of 40 CFR 52.21, F.A.C., Prevention of Significant Deterioration of Air Quality.

**Emission Limits**

5. The particulate matter emissions standard (total PM and PM10) for the baghouse serving the slag dryer will be established based on actual test data on the unit obtained by the permittee using a test plan and methodology acceptable to the Department. The allowable particulate matter emissions shall not exceed 0.04 gr/dscf, 4.2 lbs/hr, and 6.2 TPY or 10 percent opacity.

6. Except for the No. 4 Finishing Mill, PM emissions from the other processing equipment handling blast furnace slag shall not exceed the quantities listed in Table 3-4 of the application (attached).

7. Particulate matter emissions from the No. 4 Finishing Mill shall not exceed 0.01 gr/acf, 2.57 lbs/hr, 11.26 TPY, or 5 percent opacity.

8. Unconfined PM emissions from the yard shall be minimized by applying the following reasonable precautions:

A. Paved parking and traffic areas shall be well maintained and kept free of particulate matter build-up. Power washers and/or

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**SPECIFIC CONDITIONS:**

vacuum type sweeper(s) shall be used to clean the paved areas. Sweeper(s) shall be maintained and operated such that visible emissions from the sweeper(s) do not exceed 5% opacity.

B. Water sprinklers shall be used when necessary to control unconfined particulate matter emissions from unpaved roads and work areas.

C. Bulk Cement (railcar/truck) Loadout Unit 1, Bulk Cement (truck) Loadout Unit 2 and Transfer Pump Hopper (under Silos 10-12), equipped with Baghouses B-110, B-210, and B-323 respectively, exhaust particulate emissions to the interior of enclosed areas. Fugitive emissions shall be contained in this manner so as not to exceed 5% opacity from the vents, doors, etc.

D. Wind breaks, enclosures, or covers shall be used to control unconfined PM emissions from handling the dried slag in the slag storage area.

9. Visible emissions from the blast furnace slag processing operation shall not exceed any of the following:

- |                                  |             |
|----------------------------------|-------------|
| A. Yard Storage/Handling         | 20% opacity |
| B. Each Clinker/Cement silo      | 5% opacity  |
| C. Each Conveyer Transfer Point  | 10% opacity |
| D. No. 4 Finish Mill             | 5% opacity  |
| E. Bulk Cement Loadout Units 1&2 | 10% opacity |

**Operation Limitations**

10. The maximum wet blast furnace slag input rate to the dryer shall not exceed 150 TPH. The permittee shall have the means to determine the process rate of the dryer and shall maintain records on the quantity of slag processed each day.

11. The facility shall not process more than 300,000 tons of blast furnace slag during any calendar year.

13. Only low sulfur No. 2 fuel oil shall be burned in the blast furnace slag dryer. The maximum heat input to the dryer shall not exceed 52 MMBtu/hr (approximately 371 GPH). The maximum fuel consumption shall not exceed 1,114,286 GPY. The permittee shall keep a log on the daily and annual fuel consumption of the dryer.

14. The dryer shall not operate more than 3,000 hours per calendar year. The permittee shall maintain a record of the time the dryer operates daily.

Permittee:  
Tarmac Florida, Inc.

Permit Number: AC 13-273887  
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Expiration Date: 07/01/96

**SPECIFIC CONDITIONS:**

**Compliance Determination**

15. The permittee shall submit a test plan and methodology for establishing the PM/PM<sub>10</sub> emission limit for the slag dryer to the Department's Southeast District and the Dade County Department of Environmental Resources Management within 15 days after issuance of this permit. Source testing shall be completed within 60 days after Department approval of the plan. Results shall be submitted within 45 days of completion of the source tests. The Department will specify the PM/PM<sub>10</sub> emission limit and revise the permit based on the test results determined under the approved test plan. Compliance with the emission limits in this permit shall be determined prior to the expiration date of this construction permit and annually thereafter. Except for the initial compliance tests and every 5 years thereafter, the PM<sub>10</sub> test is waived if visible emissions from the baghouses do not exceed 5 percent opacity. The following referenced methods as specified in 40 CFR 60, Appendix A (July 1, 1994), or by other test methods with prior Department approval, shall be used to determine compliance with the emissions limit this permit.

A. PM<sub>10</sub> - EPA Methods 1, 2, 3, 4, and 5 (assuming all PM is PM<sub>10</sub>).

B. Visible Emissions - EPA Method 9. The visible emissions test shall be conducted concurrently with any required PM test on the facility.

16. Compliance tests on the blast furnace slag dryer shall be conducted at a minimum rate of 135 TPH. If testing is performed at a rate less than specified in this specific condition, operation shall be limited to a maximum of 110 percent of the tested capacity until such time as an acceptable test is performed at a minimum of the production rate specified in this specific condition. When operation is restricted to a lower capacity because of the testing at such level, the Dade County Department of Environmental Resources Management (DERM), upon advanced notification, will allow operation at higher capacities if such operation is for demonstrating compliance at a higher capacity.

17. The permittee shall notify DERM at least fifteen (15) days prior to any compliance testing required by this permit or other regulations in accordance with Rule 62-297.340(1)(i), F.A.C.

18. Copies of the test report(s) shall be submitted to DERM within forty-five (45) days of completion of testing in accordance with Rule 62-297.450(3)(b), F.A.C.

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Permittee:  
Tarmac Florida, Inc.

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SPECIFIC CONDITIONS:

Record Keeping and Reporting Requirements

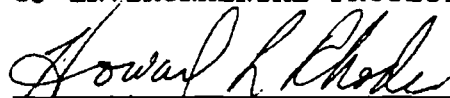
19. The permittee shall maintain a daily log on the quantity of slag processed and fuel consumed by the slag dryer.

20. An annual operation report shall be submitted to DERM by March 1 of each year pursuant to Rule 62-210.370(2), F.A.C.

21. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Department's Bureau of Air Regulation prior to 60 days before the expiration of the permit (Rule 62-4.090, F.A.C.).

22. A timely application for a Title V operation permit must be submitted to DERM by the date required in Rule 62-213.420, F.A.C.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



Howard L. Rhodes, Director  
Division of Air Resources  
Management

BEST AVAILABLE CONTROL TECHNOLOGY (BACT) DETERMINATION

Tarmac Florida, Inc.  
Medley, Dade County, Florida  
AC 13-273887/PSD-FL-230

Tarmac Florida, Inc. proposes to construct a Blast Furnace Slag Processing Operation at the Pennsuco Cement Plant in Medley, Dade County, Florida. Major components of the proposed slag processing operation are a fuel storage tank and an existing 150 TPH asphalt plant dryer with a baghouse. The slag processing facility will use the existing Clinker and Cement Silos, No. 4 Finishing Mill, and Bulk Cement Loadout Units Nos. 1 and 2. The slag processing operation will emit particulate matter (PM and PM10) and the product of combustion of No. 2 fuel oil. The emission limits requested for the facility would result in a net emissions increase of 36.2 TPY for PM, 31.0 TPY for PM10, 39.6 TPY for SO<sub>2</sub>, 11.1 TPY for NO<sub>x</sub>, and smaller quantities (less than the significant emissions rates) for CO, VOC, sulfuric acid mist, total reduced sulfur, lead, mercury, fluorides, asbestos, and vinyl chloride. The requested increase in allowable emissions of PM and PM10 are above the significant emissions rates of 25 and 15 TPY, respectively. The proposed slag processing operation is subject to the Prevention of Significant Deterioration (PSD) regulations and the allowable emissions of PM and PM10 for the slag dryer are set by a BACT determination. The existing Portland cement processing equipment (Clinker and Cement Silos, Conveyers, Finishing Mill and Bulk Loadout Units) are not subject to this BACT determination because the equipment was capable of accommodating blast furnace slag without a capital expenditure.

DATE OF RECEIPT OF A BACT APPLICATION

July 10, 1995

BACT REQUESTED BY THE APPLICANT

The applicant proposed the use of a Flex-Kleen baghouse with a 6.48:1 air/cloth ratio to control the emissions from the slag dryer. The requested PM emission standard is 0.04 gr/dscf.

BACT DETERMINATION PROCEDURE

In accordance with Rule 62-212.410, Florida Administrative Code, Best Available Control Technology Determination, Stationary Source-Preconstruction Review, this BACT determination is based on the maximum degree of reduction of each pollutant emitted which the Department of Environmental Protection (Department), on a case by case basis, taking into account energy, environmental and economic impacts, and other costs, determines is achievable through application of production processes and available methods, systems, and techniques. In addition, the regulations state that in making the BACT determination the Department shall give consideration to:

BACT  
Tarmac Florida, Inc.  
Page Two

- (a) Any Environmental Protection Agency determination of BACT pursuant to 40 CFR 52.21, and any emission limitation contained in 40 CFR Part 60 (Standards of Performance for New Stationary Sources) or 40 CFR Part 61 (National Emission Standards for Hazardous Air Pollutants).
- (b) All scientific, engineering, and technical material and other information available to the Department.
- (c) The emission limiting standards or BACT determinations of any other state.
- (d) The social and economic impact of the application of such technology.

The EPA currently stresses that BACT should be determined using the "top-down" approach. The first step in this approach is to determine for the emission unit in question the most stringent control available for a similar or identical emission unit or emission unit category. If it is shown that this level of control is technically or economically infeasible for the emission unit in question, then the next most stringent level of control is determined and similarly evaluated. This process continues until the BACT level under consideration cannot be eliminated by any substantial or unique technical, environmental, or economic objections.

#### BACT DETERMINED BY THE DEPARTMENT


The dryer is a source of particulate matter emissions. The emissions of particulate matter will be controlled by a baghouse. The Department considers a baghouse appropriate air pollution controls for this source. The BACT Clearinghouse Document did not list a BACT determination for particulate matter emissions from a blast furnace slag dryer. The actual particulate matter emission standard for the baghouse controlling the dryer will be established from stack test data obtained during initial operation of this unit. The standard shall not exceed 0.04 gr/dscf.

BACT  
Tarmac Florida, Inc.  
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DETAILS OF THE ANALYSIS MAY BE OBTAINED BY CONTACTING:


Willard Hanks, Review Engineer  
A. A. Linero, P.E., Administrator  
Department of Environmental Protection  
Division of Air Resources Management  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

RECOMMENDED BY:

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

10-26, 1995  
Date

APPROVED BY:

  
\_\_\_\_\_  
Howard L. Rhodes, Director  
Division of Air Resources Management

10/26, 1995  
Date



Memorandum

Florida Department of  
Environmental Protection

To: Howard Rhodes  
Thru: Clair Fancy *add for CHF*  
Al Linero *add*  
From: Willard Hanks *wmh*  
Date: October 27, 1995  
Subject: Approval of a Construction Permit  
Tarmac Florida, Inc.

Attached for your approval and signature is a Best Available Control Technology determination and an air pollution source construction permit for Tarmac Florida, Inc. to build a blast furnace slag processing unit at the Pennsuco Portland cement plant located in Medley, Dade County, Florida.

The slag processing unit consists of a new 10,000 gallon No. 2 fuel oil storage tank, a used 150 TPH asphalt dryer, and will use existing clinker and cement silos, finishing mill, and bulk cement loadout units. The blast furnace slag is not introduced into the existing cement kilns or clinker coolers. The proposed operation operates independently from the rest of the Portland cement production at this facility. The project was subject to the PSD regulations because the PM and PM10 emissions increase requested by the applicant were above the significant emission rates. Emissions from the dryer, grinder and storage silos will be controlled by baghouses. Fugitive emissions will be minimized by various reasonable precautions.

The only comments submitted on the Preliminary Determination were from the applicant. Their main request, which the Bureau accepted, was to have the particulate matter standard for the slag dryer based on actual test data collected after the unit begins operation. The emission standard will not be allowed to exceed 0.04 gr/dscf. Other minor changes to the draft permit are discussed in the Final Determination.

I recommend your approval and distribution of the determination.

WH/t

Attachment