

Department of Environmental Protection

Lawton Chiles
Governor

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

Virginia B. Wetherell
Secretary

March 3, 1997

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Scott Quaas
Environmental Manager
Tarmac America, Inc.
455 Fairway Drive
Deerfield Beach, Florida 33441

Re: DRAFT Permit No. 0250020-001-AC, PSD-FL-236
Tarmac Pennsuco Portland Cement Plant/Slag Dryer

Dear Mr. Quaas:

Enclosed is one copy of the Draft Air Construction Permit for a new slag dryer and baghouse to be built at Tarmac's Pennsuco portland cement plant located at 11000 N.W. 121 Way, Medley, Dade County. The Technical Evaluation and Preliminary Determination, Best Available Control Technology determination, the Department's Intent to Issue Air Construction Permit, and the "PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT" are also included.

The "PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT" must be published within 30 (thirty) days of receipt of this letter. Proof of publication, i.e., newspaper affidavit, must be provided to the Department's Bureau of Air Regulation office 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.

Please submit any written comments you wish to have considered concerning the Department's proposed action to A. A. Linero, P.E., Administrator, New Source Review Section at the above letterhead address. If you have any other questions, please contact Willard Hanks or Mr. Linero at 904/488-1344.

Sincerely,



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

CHF/wh/t

Enclosures

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):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:
 Scott Quass, Env. Mgr.
 Tarmac America
 455 Fairway Dr
 Deerfield Bch, FL
 33441

4a. Article Number
 P 265 659 185

4b. Service Type

Registered Certified
 Express Mail Insured
 Return Receipt for Merchandise COD

7. Date of Delivery
 3-20

5. Received By: (Print Name)
 [Signature]

6. Signature: (Addressee or Agent)
 X [Signature]

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

PS Form 3800, April 1995 Domestic Return Receipt

Thank you for using Return Receipt Service.

P 265 659 185

US Postal Service
Receipt for Certified Mail
 No Insurance Coverage Provided.
 Do not use for International Mail (See reverse)

Sent to	Scott Quass
Street & Number	Tarmac
Post Office, State, & 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, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	3/6/97
0252020-001-AC	
PSD-FI-236	

PS Form 3800, April 1995

NOTICE TO BE PUBLISHED IN THE NEWSPAPER

PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

DRAFT Permit No. 0250020-001-AC/PSD-FL-236
Tarmac Pennsuco Slag Drying Operation
Dade County

The Department of Environmental Protection (Department) gives notice of its intent to issue an air construction permit to Tarmac America, Inc., 455 Fairway Drive, Deerfield Beach, Florida 33441, for the Tarmac Pennsuco plant located at 11000 NW 121 Way, Medley, Dade County, Florida, 33178. The permit will authorize the construction of a new blast furnace slag drying operation to replace the one permitted on October 27, 1995. A Best Available Control Technology (BACT) determination was required for particulate matter (PM/PM₁₀) pursuant to Rule 62-212.400, F.A.C. and 40 CFR 52.21, Prevention of Significant Deterioration (PSD).

The proposed project consists of 125 tons per hour (TPH) blast furnace slag dryer and baghouse. The dryer will use natural gas and No. 2 fuel oil from a new 10,000 gallon storage tank as fuels. Particulate matter emissions from the dryer and dryer conveyor will be controlled with baghouses. Subsequent material processing will be accomplished through the use of the existing No. 4 finishing mill, clinker silos, cement silos, and loading system. The operation will process 300,000 tons per year (TPY) of blast furnace slag. The product will be shipped for use as a raw material at concrete batch plants.

Emissions of pollutants from the slag drying operation are estimated to be 43.6 TPY of particulate matter (PM/PM₁₀), 18.2 TPY of sulfur dioxide, 12.8 TPY of nitrogen oxides, 3.2 TPY of carbon monoxide, and less than 1 TPY of volatile organic compounds. Particulate control will be accomplished by use of fabric filters and reasonable precautions.

An air quality impact analysis was not conducted because the increase in emissions is less than 50 TPY for each pollutant. Emissions from the facility will consume PSD increment but will not significantly contribute to or cause a violation of any state or federal ambient air quality standards.

The Department will issue the FINAL Permit, in accordance with the conditions of the DRAFT Permit 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 and requests for public meetings concerning the proposed DRAFT Permit issuance action for a period of 30 (thirty) days from the date of publication of this Notice. Written comments and requests for public meetings 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. If written comments received result in a significant change in this DRAFT Permit, the Department shall issue a Revised DRAFT Permit and require, if applicable, another Public Notice.

The Department will issue FINAL Permit with the conditions of the DRAFT Permit unless a timely petition for an administrative hearing is filed pursuant to Sections 120.569 and 120.57 F.S. or a party requests mediation as an alternative remedy under Section 120.573 before the deadline for filing a petition. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement. The procedures for petitioning for a hearing are set forth below, followed by the procedures for requesting mediation.

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 (or a request for mediation, as discussed below) 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.

NOTICE TO BE PUBLISHED IN THE NEWSPAPER

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 person whose substantial interests are affected by the Department's proposed permitting decision, may elect to pursue mediation by asking all parties to the proceeding to agree to such mediation and by filing with the Department a request for mediation and the written agreement of all such parties to mediate the dispute. The request and agreement must be filed in (received by) the Office of General Counsel of the Department, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000, by the same deadline as set forth above for the filing of a petition.

A request for mediation must contain the following information: (a) The name, address, and telephone number of the person requesting mediation and that person's representative, if any; (b) A statement of the preliminary agency action; (c) A statement of the relief sought; and (d) Either an explanation of how the requester's substantial interests will be affected by the action or proposed action addressed in this notice of intent or a statement clearly identifying the petition for hearing that the requester has already filed, and incorporating it by reference.

The agreement to mediate must include the following: (a) The names, addresses, and telephone numbers of any persons who may attend the mediation; (b) The name, address, and telephone number of the mediator selected by the parties, or a provision for selecting a mediator within a specified time; (c) The agreed allocation of the costs and fees associated with the mediation; (d) The agreement of the parties on the confidentiality of discussions and documents introduced during mediation; (e) The date, time, and place of the first mediation session, or a deadline for holding the first session, if no mediator has yet been chosen; (f) The name of each party's representative who shall have authority to settle or recommend settlement; and (g) The signatures of all parties or their authorized representatives.

As provided in Section 120.573 F.S., the timely agreement of all parties to mediate will toll the time limitations imposed by Sections 120.569 and 120.57 F.S. for requesting and holding an administrative hearing. Unless otherwise agreed by the parties, the mediation must be concluded within sixty days of the execution of the agreement. If mediation results in settlement of the administrative dispute, the Department must enter a final order incorporating the agreement of the parties. Persons whose substantial interests will be affected by such modified final decision of the Department have a right to petition for a hearing only in accordance with the requirements for such petitions set forth above. If mediation terminates without settlement of the dispute, the Department shall notify all parties in writing that the administrative hearing processes under Sections 120.569 and 120.57 F.S. remain available for disposition of the dispute, and the notice will specify the deadlines that then will apply for challenging the agency action and electing remedies under those two statutes.

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

Department of Environmental Protection
Southeast District
400 North Congress Avenue
West Palm Beach, Florida 33419-5425
Telephone: 561/681-6790
Fax: 561/681-6755

Dade County DERM
Penthouse 2
33 Southwest Second Avenue
Miami, Florida 33130
Telephone: 305/372-6925
Fax: 305/372-6954

The complete project file includes the application, technical evaluations, draft permit, 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.

In the Matter of an
Application for Permit by:

Mr. Scott Quaas
Environmental Manager
Tarmac America, Inc.
455 Fairway Drive
Deerfield Beach, Florida 33441

DRAFT Permit No. 0250020-001-AC
PSD-FL-236
Tarmac Pennsuco/Dade County

INTENT TO ISSUE AIR CONSTRUCTION PERMIT

The Department of Environmental Protection (Department) gives notice of its intent to issue an air construction permit (copy of DRAFT Permit attached) for the proposed project, detailed in the application specified above and the attached Technical Evaluation and Preliminary Determination, for the reasons stated below.

The applicant, Tarmac America, Inc., applied on December 6, 1996, to the Department for an air construction permit for a new emissions unit at its Tarmac Pennsuco facility located at 11000 N.W. 121 Way, Medley, Dade County. The proposed permit is for a new blast furnace slag dryer and baghouse that will replace similar equipment recently permitted at this plant.

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 new air construction permit is required to install the new dryer and baghouse with revised emission limits. The proposed permit will supersede and replace Permit No. AC13-273887 (PSD-FL-230) when the new slag dryer begins operation.

The Department intends to issue this air construction permit 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". 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. 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 pursuant to Rule 62-103.150 (6), F.A.C.

The Department will issue the FINAL Permit, in accordance with the conditions of the enclosed DRAFT Permit 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 and requests for public meetings concerning the proposed DRAFT Permit issuance action for a period of 30 (thirty) days from the date of publication of "PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT." Written comments and requests for public meetings 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. If written comments received result in a significant change in this DRAFT Permit, the Department shall issue a Revised DRAFT Permit and require, if applicable, another Public Notice.

The Department will issue the permit with the attached conditions unless a timely petition for an administrative hearing is filed pursuant to Sections 120.569 and 120.57 F.S., or a party requests mediation as an alternative remedy under Section 120.573 F.S. before the deadline for filing a petition. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement. The procedures for petitioning for a hearing are set forth below, followed by the procedures for requesting mediation.

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 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 (or a request for mediation, as discussed below) 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.

A person whose substantial interests are affected by the Department's proposed permitting decision, may elect to pursue mediation by asking all parties to the proceeding to agree to such mediation and by filing with the Department a request for mediation and the written agreement of all such parties to mediate the dispute. The request and agreement must be filed in (received by) the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000, by the same deadline as set forth above for the filing of a petition.

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The agreement to mediate must include the following: (a) The names, addresses, and telephone numbers of any persons who may attend the mediation; (b) The name, address, and telephone number of the mediator selected by the parties, or a provision for selecting a mediator within a specified time; (c) The agreed allocation of the costs

and fees associated with the mediation; (d) The agreement of the parties on the confidentiality of discussions and documents introduced during mediation; (e) The date, time, and place of the first mediation session, or a deadline for holding the first session, if no mediator has yet been chosen; (f) The name of each party's representative who shall have authority to settle or recommend settlement; and (g) The signatures of all parties or their authorized representatives.

As provided in Section 120.573 F.S., the timely agreement of all parties to mediate will toll the time limitations imposed by Sections 120.569 and 120.57 F.S. for requesting and holding an administrative hearing. Unless otherwise agreed by the parties, the mediation must be concluded within sixty days of the execution of the agreement. If mediation results in settlement of the administrative dispute, the Department must enter a final order incorporating the agreement of the parties. Persons whose substantial interests will be affected by such modified final decision of the Department have a right to petition for a hearing only in accordance with the requirements for such petitions set forth above. If mediation terminates without settlement of the dispute, the Department shall notify all parties in writing that the administrative hearing processes under Sections 120.569 and 120.57 F.S. remain available for disposition of the dispute, and the notice will specify the deadlines that then will apply for challenging the agency action and electing remedies under those two statutes.

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 (including the PUBLIC NOTICE, Technical Evaluation and Preliminary Determination, Draft BACT Determination, and the DRAFT permit) was sent by certified mail (*) and copies were mailed by U.S. Mail before the close of business on 3-6-97 to the person(s) listed:

- Mr. Scott Quaas, Tarmac*
- Mr. David Buff, Golder Assoc.
- Mr. Brian Beals, EPA
- Mr. Joe Kahn, SED
- Mr. Pat Wong, DERM
- Mr. John Bunyak, NPS

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.

Karin Stoe 3-6-97
(Clerk) (Date)

**DIVISION OF AIR RESOURCES MANAGEMENT
BUREAU OF AIR REGULATION
NEW SOURCE REVIEW SECTION
Telephone (904) 488-1344
Fax (904) 922-6979**

**TECHNICAL EVALUATION
AND
PRELIMINARY DETERMINATION**

Pennsucco Cement/Blast Furnace Slag Operation

Tarmac America, Inc.

Facility ID No. 0250020
Medley
Dade County

Department File No. 0250020-001 AC
PSD-FL-236

March 3, 1997

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

I. GENERAL INFORMATION

A. Applicant

Tarmac America, Inc.
455 Fairway Drive
Deerfield Beach, Florida 33441

B. Request

On December 6, 1996, Tarmac America, Inc. submitted an application for an air construction permit to build a blast furnace slag processing operation consisting of a slag dryer and baghouse at the Pennsuko Cement Plant (SIC 3241) located in Medley, Dade County, Florida. The UTM coordinates of this site are Zone 17, 562.8 km E and 2861.7 km N. The application was complete on January 22, 1997.

C. Project

The applicant proposes to process 300,000 tons per year (TPY) of blast furnace slag at their existing portland cement plant site. The proposed slag processing operation will have a new 10,000 gallon fuel oil storage tank, a 125 tons per hour (TPH) slag dryer that uses 57.5 million British thermal units per hour (mmBtu/hr) heat input from No. 2 fuel oil or natural gas, and a conveyor system. The particulate emissions from the dryer and conveyor will be controlled by baghouses. The blast furnace slag processing operation will use the existing Clinker Storage Silos (Nos. 21, 22, 23, 26, 27, and 28), Finishing Mill No. 4, Cement Storage Silos 1, 2, 3, 4, 5, 6, 7, 8, and 9, and Bulk Loadout Units 1 and 2 at the portland cement plant. The emissions from the silos and mill are controlled with baghouses. Reasonable precautions must be used to control unconfined particulate matter emissions from the handling of the wet slag in the yard.

The slag will be brought to the plant in trucks and dried in the new plant dryer. It will then be ground, stored, handled and shipped in the existing finish mill, clinker and cement silos, and loadout units.

This operation will replace the one authorized by permit No. PSD-FL-230. As concurrent operation of both systems is not authorized by the Department, permit No. PSD-FL-230 must be surrendered when the new slag dryer begins operation.

D. Emissions

Air pollutants will be emitted from the dryer and during the handling, grinding, and storage of the slag.

The dryer will emit particulate matter (PM and PM10) along with the products of combustion of the No. 2 fuel oil and natural gas. The applicant requested a particulate matter emission standard of 0.04 grain per dry standard cubic foot (gr/dscf) for the baghouse serving the new dryer. With the estimated gas flow of 27,820 dry standard cubic feet per minute (dscfm), limited to 3,120 per year, the PM emissions would be 9.54 pounds per hour (lbs/hr) and 14.88 TPY. The emissions from other baghouses on equipment handling the dried slag was reported to be 0.01 grain per actual cubic foot (gr/acf).

Based on a fuel consumption of 410.6 gallons per hour (GPH) of No. 2 fuel oil (57.5 mmBtu/hr heat input) for 3,120 hrs/yr and AP-42 emission factors, the emissions of the products of combustion from the dryer will be 11.66 lbs/hr and 18.19 TPY sulfur dioxide (SO₂), 8.21 lbs/hr and 12.81 TPY nitrogen oxides (NO_x), 2.05 lbs/hr and 3.20 TPY carbon monoxide (CO), and smaller quantities of volatile organic compounds (VOC), sulfuric acid mist (SAM), lead, mercury, and beryllium.

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

Based on the procedures listed in an earlier AP-42, fugitive dust emissions from the handling and storage of the slag were estimated to be 1.775 TPY PM and 0.625 TPY PM10. Using a later emission factor, fugitive emissions estimates would be approximately 4 TPY. Emissions of particulate matter (PM) from the silos, mill, conveyers, and loadout units were estimated at 36.15 TPY. Tables 3-1 through 3-4 of the application summarizes these emission estimates.

The proposed increase in emissions from the facility resulting from the blast furnace slag processing operation by the applicant (41.1 TPY PM and 39.9 TPY PM10) exceed the significant emissions rates listed in Chapter 212, F.A.C. The increase in emissions of the other air pollutants that will be emitted by the proposed slag processing operation are less than the significant emissions rates. Table 4-1 from the application is a summary of the requested increase in emissions from the proposed slag operation.

II. RULE APPLICABILITY

The proposed construction of a blast furnace slag processing operation at an existing portland cement plant (SIC 3241), is subject to the preconstruction requirements under the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4 and 62-212, Florida Administrative Code (F.A.C.).

The portland cement plant is located in Dade County. This air quality area is designated attainment/maintenance for ozone (Rule 62-275.420, F.A.C.) and is attainment for the other criteria pollutants (Rule 62-275.400, F.A.C.). Also, Dade County has its own environmental agency which may have additional requirements, such as licenses for the storage area and fuel tank for the proposed project.

The portland cement plant is a major facility. The proposed furnace slag processing operation will increase emissions of particulate matter (PM and PM10) by more than the significant emission rates. Therefore, the proposed project is subject to the New Source Review (NSR) requirements pursuant to Rule 62-212.400(5), F.A.C., which requires a Best Available Control Technology (BACT) determination for PM and PM10. The net emissions increase of all pollutants due to the proposed slag processing operation is less than 50 TPY. Therefore the project is exempt from Rule 62-212.400(5)(d), (e), (f), and (g), F.A.C., which are requirements for ambient impact analysis, an additional impact analysis, a preconstruction air quality monitoring analysis, and post construction monitoring (Rule 62-212.400(3)(d), F.A.C.). The operation is also subject to portions of 40 CFR 60, Subpart F, Standards of Performance for Portland Cement Plants.

III. TECHNICAL EVALUATION

Up to 300,000 TPY of blast furnace slag will be hauled to the plant by trucks. The slag will contain 15 to 18 percent moisture. The applicant stated that the storage and handling of the slag will not cause a fugitive dust problem. Should a problem develop, the applicant will apply water to the slag or take additional measures to minimize fugitive emissions from handling the slag. These precautions shall be taken whenever unconfined emissions are observed (EPA Method 22) to be leaving the storage area. The additional measures could include the installation of permanent water applicators for the undried slag.

Front-end loaders will transfer the slag to a dryer feed hopper. The hopper discharges to a conveyor that takes the slag to the 125 TPH dryer. Moisture in the slag will be reduced to 3 to 5 percent by the dryer using either No. 2 fuel oil or natural gas fuels. No. 2 fuel oil containing a maximum of 0.2 percent sulfur from a new 10,000 gallon (maximum) fuel oil storage tank will be consumed by the dryer at a maximum rate of 57.5 MMBtu/hr (approximately 410.6 GPH). Maximum fuel oil consumption by this dryer will be 1,281,000 GPY. Approximately 57,000 cubic feet per hour of natural gas may be burned as an alternate fuel. The estimated emissions of the products of combustion from this fuel are shown in Table 3-1 of the application.

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

PM/PM10 emissions from the dryer will be controlled by a Flex-Kleen baghouse that has a 4.5:1 air to cloth ratio. The applicant proposed an emission limit of 0.04 gr/dscf which is the new source performance standard for asphalt concrete plants. The Department's draft BACT determination (attached) sets the emission standard for PM at 0.02 gr/dscf. This standard is equivalent to 4.8 lbs/hr and 7.4 TPY PM emission from the proposed dryer.

The slag leaving the dryer contains about 5 percent moisture. It is transferred to the existing clinker handling system by a new conveying system that is controlled by a new baghouse. It is later transferred and ground in Finishing Mill No. 4. The application states that the allowable emissions from the baghouse controlling this mill will be reduced to 0.01 gr/acf. The Department believes the PM/PM10 emissions may be higher for these baghouses. However, the higher emissions would not change the rule applicability determination for this project. The ground slag from the mill will be sent to the existing cement silos and shipped out of the plant by Bulk Loadout Units Nos. 1 and 2.

The visible emissions standards for these operations will be:

Slag Dryer:	10 percent opacity
Storage Piles:	No fugitive emissions observed leaving the plant.
Belt Conveyer Transfer Points:	10 percent opacity
Finish Mill Baghouse:	5 percent opacity
Silo Baghouses:	5 percent opacity
Bulk Loadout Operation:	10 percent opacity

IV. AIR QUALITY IMPACT ANALYSIS

The regulations do not require an air quality impact for a modification that increases emissions by less than 50 TPY. The increase in emissions from the blast furnace slag processing operation will not cause a violation of any ambient air quality standard.

V. CONCLUSION

On the basis of the information provided by Tarmac America, Inc., the Department has reasonable assurance that the proposed blast furnace slag processing operation, as described in this evaluation and subject to the conditions proposed within, will not cause a violation of any air quality standard, PSD increment, or other technical provision of Chapter 62-212 of the Florida Administrative Code.

APPENDIX BD
BEST AVAILABLE CONTROL TECHNOLOGY DETERMINATION (BACT)

Blast Furnace Slag Processing Operation with Slag Dryer
Tarmac America, Inc.
PSD-FL-236 and 0250020-001-AC
Medley, Dade County

DRAFT

A process description is included in the Technical Evaluation and Preliminary Determination.

Following is the BACT determination proposed by the applicant:

Tarmac America, Inc. proposes to construct a blast furnace slag processing operation consisting of a slag dryer and baghouse at the Pennsuco Cement Plant in Medley, Dade County. The new dryer will replace the one recently built under permit No. PSD-FL-230. Major components of the proposed slag processing operation are a fuel storage tank, a new 125 TPH slag dryer/baghouse, and a dried slag conveying system with a baghouse. The slag processing system will use the existing clinker and cement storage silos, the 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 and natural gas. The emission limits requested by the applicant from the slag handling operation would result in a net emissions increase of 41.1 TPY for PM, 39.9 TPY for PM₁₀, 18.19 TPY for SO₂, 12.81 TPY for NO_x, and smaller quantities (less than the significant emissions rates) for CO, VOC, sulfuric acid mist, total reduce 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 and Finishing Mill) 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

December 6, 1996

BACT REQUESTED BY THE APPLICANT

The applicant proposed the use of a baghouse with a 4.5:1 air/cloth ratio to control the emissions from the slag dryer. The requested PM emission standard is 0.04 gr/dscf. The applicant proposed to lower this standard if tests on the constructed facility showed it would consistently meet a lower limit.

BACT DETERMINATION PROCEDURE

In accordance with Rule 62-212.410, F.A.C., 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:

- (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.

APPENDIX BD
BEST AVAILABLE CONTROL TECHNOLOGY DETERMINATION (BACT)

(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 properly designed baghouse to be the appropriate air pollution control device for this source. The BACT Clearinghouse Document does not list a BACT determination for particulate matter emissions from a blast furnace slag dryer. The Department notes that baghouses controlling other sources handling similar inert solid material (phosphate rock, limestone, etc.) are able to meet a particulate matter emission limit of 0.02 grain per dry standard cubic foot (gr/dscf). The Department also notes that the application states that the particulate matter emissions from the No. 4 Finish Mill would be 0.01 grain per actual cubic foot. Allowing for the temperature and moisture content of the air leaving the finishing mill, the 0.01 gr/acf is approximately equal to 0.02 gr/dscf. The Department has determined that BACT for the blast furnace slag dryer is the use of a properly designed baghouse having an air to cloth ratio of 4.5:1 or larger filtering area. The Department believes the baghouse can meet a PM emission standard of 0.02 gr/dscf and 10 percent opacity. The Department will adjust this standard if tests on the properly maintained and operated baghouse having an air to cloth ratio of 4.5:1 or larger filtering area serving the slag dryer shows it cannot meet this standard.

DETAILS OF THE ANALYSIS MAY BE OBTAINED BY CONTACTING:

Willard Hanks, Permit Engineer
A. A. Linero, P.E., Administrator, NSR Section
Department of Environmental Protection
Bureau of Air Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

DRAFT

RECOMMENDED BY:

APPROVED BY:

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

Howard L. Rhodes, Director
Division of Air Resources Management

_____, 1997
Date

_____, 1997
Date



Department of Environmental Protection

DRAFT

Lawton Chiles
Governor

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

Virginia B. Wetherell
Secretary

PERMITTEE:

Tarmac America, Inc.
Pennsuco Cement Plant
455 Fairway Drive
Deerfield Beach, Florida 33441
Authorized Representative:
Mr. Scott Quaas
Environmental Manager

FID No.	0250020
PSD No.	PSD-FL-236
Permit No.	0250020-001-AC
Expires:	July 1, 1998

LOCATED AT:

Tarmac America, Inc., Pennsuco Cement Plant
Project: Blast Furnace Slag Processing Furnace
Standard Industrial Classification Code (SIC): 3241
Dade County, Florida

UTM: Zone 17: 562.8 km E : 2861.7 km N
Latitude/ Longitude: 25°52'26" / 80°22'27"

STATEMENT OF BASIS:

This draft construction permit is issued under the provisions of Chapter 403 of the Florida Statutes (F.S.), and the Florida Administrative Code (F.A.C.) Chapters 62-4, 62-204, 62-210, 62-212, 62-296, 62-297. The above named permittee is authorized to modify the facility 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 of Environmental Protection (Department).

Attached appendices and Tables made a part of this permit:

Appendix BD	BACT Determination
Appendix GC	Construction Permit General Conditions
Table 3-4	Future Maximum Particulate Emissions from Affected Point Sources

EFFECTIVE DATE:

Howard L. Rhodes, Director
Division of Air Resources
Management

SECTION I. FACILITY INFORMATION

DRAFT

PROJECT DESCRIPTION:

The permittee wishes to construct a Blast Furnace Slag Processing Operation consisting of a slag dryer 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, a new 125 ton per hour (TPH) Gencor (or equivalent) dryer with a baghouse, and a new dry slag conveyor 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.

Additional county permits may be required by the Dade County Department of Environmental Resource Management (DERM) for some of the slag drying operations (fuel tanks, slag storage, etc.).

This permit replaces permit No. AC13-273887, PSD-FL-230 when the new dryer authorized by this permit begins operation.

PERMIT SCHEDULE:

- (DATE) for an administrative hearing
- (DATE) Notice of Intent published in [issue of Newspaper]
- (DATE) Issued Notice of Intent to issue Permit
- 01/22/97 Application deemed complete

The documents listed below are the basis of the permit. They are specifically related to this permitting action. These documents are on file with the Department.

1. Application received December 6, 1996.
2. DEP letter dated December 30, 1996.
3. Golder Assoc. letter dated January 20, 1997.

SECTION II. EMISSION UNIT(S) SPECIFIC CONDITIONS

SUBSECTION A. SPECIFIC CONDITIONS:

DRAFT

General

- A.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. This permit supersedes permit No. AC13-273887 (PSD-FL-230) when the Gencor dryer begins operation.

Construction

- A.2 The No. 2 fuel oil storage tanks shall be constructed so that their maximum storage capacity is less than 40 cubic meters (10,568 gallons). A DERM license may be required for this fuel tank.
- A.3 The blast furnace slag dryer stack shall have a minimum height of 30 feet and a maximum diameter of 4 feet. The stack shall be equipped with sampling facilities that comply with the requirements of Rule 62-297.345, F.A.C.

Federal Requirements

- A.4 The permittee shall construct and operate this 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, and 40 CFR 60, Subpart F, Standards of Performance for Portland Cement Plants.

Emission Limits

- A.5 The particulate matter emissions (total PM and PM10) from the baghouse serving the slag dryer shall not exceed any of the following: 0.02 gr/dscf, 4.8 lbs/hr, 7.44 TPY, and 10 percent opacity. This standard may be modified if compliance tests show that the baghouse has an air to cloth ratio of 4.5:1 or larger and the filtering area is unable to meet a standard of 0.02 gr/dscf.
- A.6 Particulate matter emissions from the dry slag conveying system shall not exceed 0.01 gr/acf or 5 percent opacity.
- A.7 Particulate matter emissions from the No. 4 Finishing Mill shall not exceed 0.01 gr/acf or 5 percent opacity.
- A.8 Except for the new slag dryer, PM emissions from the other processing equipment handling blast furnace slag shall not exceed the quantities listed in Table 1 (attached) of the application. 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. 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.

SECTION II EMISSION UNIT(S) SPECIFIC CONDITIONS

- 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) Water sprinklers and wind breaks, enclosures, or covers shall be used to control unconfined PM emissions from the yard.

A DERM license may be required for the slag storage operation.

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

- a) Yard Storage/Handling Fugitive dust shall not be observed leaving the plant area.
- 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
- f) Slag dryer: 10% opacity

Operation Limitations

- A.10 The maximum wet blast furnace slag input rate to the dryer shall not exceed 125 TPH. The permittee shall install equipment or otherwise measure to the Department's satisfaction the process rate of the dryer and shall maintain records of the quantity of slag processed each day.
- A.11 The facility shall not process more than 300,000 tons of blast furnace slag during any calendar year.
- A.13 Only natural gas and low sulfur No. 2 fuel oil shall be burned in the blast furnace slag dryer. The sulfur content of the fuel shall not exceed 0.2 percent. The maximum heat input to the dryer shall not exceed 57.5 MMBtu/hr (approximately 410.6 GPH of oil or 57,000 CFH of gas). The maximum fuel consumption shall not exceed 1,281,000 GPY of oil or 178 MMCFPY of gas.
- A.14 The dryer shall not operate more than 3,120 hours per calendar year. The permittee shall maintain records of the hours of operation for the dryer each day.

SECTION II. EMISSION UNIT(S) SPECIFIC CONDITIONS

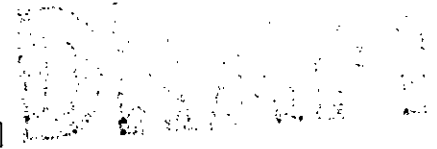
DRAFT**Compliance Determination**

- A.15 Compliance with the emission limits in this permit shall be determined prior to the expiration date of this construction permit and annually thereafter by the following referenced methods as specified in 40 CFR 60, Appendix A (July 1, 1994), or by other test methods with prior Department approval:
- a) PM₁₀ - EPA Methods 1, 2, 3, 4, and 5 (assuming all PM is PM₁₀).
 - b) Visible Emissions - EPA Method 9. The visible emissions test shall be conducted concurrently with any required PM test on the facility.
- A.16 Compliance testing of emissions from the slag dryer and dried slag conveyor system shall be conducted with the dryer operating at permitted capacity. Permitted capacity is defined as 90-100 percent of the maximum operating rate allowed by the permit. If it is impracticable to test at permitted capacity, then sources may be tested at less that capacity; in this case subsequent source operation is limited to 110 percent of the test load until a new test is conducted. Once the unit is so limited, then operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the permitted capacity in the permit.
- A.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.
- A.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.

Record Keeping and Reporting Requirements

- A.19 The permittee shall maintain a daily log of the actual hours of dryer operation, quantity of slag processed, and fuel consumed by the slag dryer.
- A.20 An annual operation report shall be submitted to DERM by March 1 of each calendar year pursuant to Rule 62-210.370(2), F.A.C.
- A.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.).
- A.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.

APPENDIX GC
GENERAL PERMIT CONDITIONS [F.A.C. 62-4.160]



- 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.

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APPENDIX GC
GENERAL PERMIT CONDITIONS [F.A.C. 62-4.160]

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 (X)
 - (b) Determination of Prevention of Significant Deterioration (X); and
 - (c) Compliance with New Source Performance Standards (X).
- 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.
-

Table 1. Future Maximum Particulate Emissions From Affected Point Sources

FACILITY ID NUMBER: 0250020

Permittee:

DRAFT Permit No.: 0250020-001-AC, PSD-F

Tarmac America, Inc., Pennsuco Cement Plant

DEP 3/5/97


E.U. ID#	Emission Unit/ Point	Emission Point ID	Control Equip. Type	Maximum Process Rate (TPH)	Air Flow Rate (CFM) ^a	PM/PM10 Emission Factor	PM/PM10 Emissions		
							(lb/hr)	(hr/yr)	(TPY)
EU 1	Slag Dryer	SLAG	Baghouse	150.0	34,100	0.02 gr/acf	5.75	3,120	9.12
EU 1	Dry Slag Conveying System Conveyor/Transfer Tower	Unknown	Baghouse	150.0	3,000	0.01 gr/acf	0.26	3,120	0.40
EU 2	Clinker Handling System No. 3 Conveyor/Bucket Elevator Conveyor/Bucket Elevator	K-347	Baghouse	150.0	5,000	0.01 gr/acf	0.43	8,760	1.88
		K-447	Baghouse	150.0	5,000	0.01 gr/acf	0.43	8,760	1.88
EU 2	Clinker Storage Silos Clinker Silos 21,22,23,26,27,28	K-633	Baghouse	237.5	1,500	0.01 gr/acf	0.13	8,760	0.56
EU 3	Finish Mill #4 Ball mill/mill sweep Belt conveyor/separator/cement Clinker/gypsum conveyors Clinker/gypsum conveyors Clinker/gypsum conveyors	F-430	Baghouse	150.0	30,000	0.01 gr/acf	2.57	8,760	11.26
		F-432	Baghouse	150.0	17,000	0.01 gr/acf	1.46	8,760	6.38
		F-603	Baghouse	150.0	8,000	0.01 gr/acf	0.69	8,760	3.00
		F-604	Baghouse	150.0	8,000	0.01 gr/acf	0.69	8,760	3.00
		F-605	Baghouse	150.0	4,000	0.01 gr/acf	0.34	8,760	1.50
EU 4	Cement Storage Silos 1-9 Cement Silos 7-9	F-512	Baghouse	150.0	10,000	0.01 gr/acf	0.86	8,760	3.75
EU 4	Bulk Cement Loadout Units 1 & 2 Railcar/Truck Unit 1 Truck Unit 2	B-110	Baghouse	300.0	3,000	0.01 gr/acf	0.26	8,760	1.13
		B-210	Baghouse	300.0	3,000	0.01 gr/acf	0.26	8,760	1.13
TOTALS							14.13		44.99

Note a: Airflow reflects dsqfm

Florida Department of
Environmental Protection

Memorandum

TO: Clair Fancy

THRU: Al Linero 

FROM: Willard Hanks *wh*

DATE: March 3, 1997

SUBJECT: Tarmac Pennsuco Plant
Blast Furnace Slag Facility

Attached is the public notice package for a new blast furnace slag unit at Tarmac's Pennsuco Portland cement facility located in Medley, Dade County. This unit will replace one recently permitted at this facility that did not meet the performance goals of the permittee.

The proposed unit will use a new dryer and baghouse. It will have higher emissions than the one it is replacing. The proposed unit is subject to PSD. I believe the BACT for the dryer baghouse should be lower than the applicant proposed (0.02 versus 0.04 gr/dscf). My position is supported by EPA's evaluation of the application.

I recommend Al's certification of the Technical Evaluation and Preliminary Determination and your approval and of the cover letter and the Intent to Issue.

WH/kt

P.E. Certification Statement

Permittee: DRAFT
Tarmac America, Inc.
Pennsuco Cement Plant

Permit No.: 0250020-001-AC
Facility ID No.: 0250020

Project type: [Air Construction Permit]

I HEREBY CERTIFY that the engineering features described in the above referenced application and subject to the proposed permit conditions provide reasonable assurance of compliance with applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-4 and 62-204 through 62-297. However, I have not evaluated and I do not certify aspects of the proposal outside of my area of expertise (including but not limited to the electrical, mechanical, structural, hydrological, and geological features).



A.A. Linero, P.E.
Registration Number: 26032

3/5
Date

Department of Environmental Protection
Bureau of Air Regulation
New Source Review Section
111 South Magnolia Drive, Suite 4
Tallahassee, Florida 32301
Phone (904) 488-1344
Fax (904) 922-6979