MIAMI-DADE COUNTY, FLORIDA

MIAMI-DADE

DERM

ENVIRONMENTAL RESOURCES MANAGEMENT
AIR QUALITY MANAGEMENT DIVISION
33 S.W. 2nd AVENUE
SUITE 900
MIAMI, FLORIDA 33130-1540
TELEPHONE: (305) 372-6925
FAX: (305) 372-6954

CERTIFIED MAIL NO.: 7000 0600 0025 3506 2242
RETURNED RECEIPT REQUESTED

NOTICE OF PERMIT

In the Matter of an
Application for Permit by:

Mr. Hardy Johnson
President Florida Division
Tarmac America, LLC
455 Fairway Drive
Deerfield beach, FL. 33441

Permit No.: 0250020-014-AC
Effective Date: September 20, 2002
Expiration Date: September 19, 2003

Dear Mr. Johnson:

Enclosed is Air Construction Permit Number 0250020-014-AC for the Tarmac Pennsuco facility located at 11000 NW 121 Way, Medley, Miami-Dade County, issued pursuant to Chapter 403, Florida Statutes (F.S.).

Any party to this order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, F.S., by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the permitting authority in the Legal Office; 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 30 (thirty) days from the date this Notice is filed with the Clerk of the permitting authority.

Executed in Miami-Dade County, Florida.
Department of Environmental
Resources Management

H. Patrick Wong, Chief
Air Quality Management Division

CERTIFICATE OF SERVICE

The undersigned duly designated clerk hereby certifies that this NOTICE OF PERMIT (including the Construction Permit) was sent by certified mail (*) and copies were mailed by U.S. Mail before the close of business on 9/20/02 to the person(s) listed or as otherwise noted:

Hardy Johnson*
Scott Quaas, Environmental Manager, Tarmac America, LLC

Clerk Stamp

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

S. Harris 9/20/02
(Clerk) (Date)

Final Construction Permit Determination

I. Public Notice.

An "INTENT TO ISSUE AIR CONSTRUCTION PERMIT" to Mr. Hardy Johnson, for the Tarmac Pennsuco facility located at 11000 NW 121 Way, Medley, Florida was clerked on August 30, 2002. The "PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT" was published in the Miami Daily Business Review on September 4, 2002. The Draft Air Construction Permit was available for public inspection at the DERM, Air Facilities Section in Miami. Proof of publication of the "PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT" was received on September 13, 2002.

II. Public Comment(s).

No comments were received during the 14-day (fourteen) public comment period.

III. Conclusion.

Since there were no comments received during the public comment period, no changes were made to the Draft Air Construction Permit and the DERM hereby issues the Air Construction Permit No.: 0250020-014-AC.

MIAMI-DADE COUNTY, FLORIDA

MIAMI-DADE

DERM

ENVIRONMENTAL RESOURCES MANAGEMENT
AIR QUALITY MANAGEMENT DIVISION
33 S.W. 2nd AVENUE
SUITE 900
MIAMI, FLORIDA 33130-1540
TELEPHONE: (305) 372-6925
FAX: (305) 372-6954

September 20, 2002

NOTICE OF AIR POLLUTION PERMIT

CERTIFIED MAIL NO.: 7000 0600 0025 3506 2242
RETURN RECEIPT REQUESTED

ISSUED TO:

Mr. Hardy Johnson
President, Florida Division
Tarmac America, LLC
455 Fairway Drive
Deerfield Beach, FL 33441

Permit Number: 0250020-014-AC
Issue Date: **September 20, 2002**
Expiration Date: September 19, 2003

Project: An Air Construction Permit to construct a concrete block plant at Tarmac Pennsuco.
Facility Description: Facility is a Portland Cement Manufacturing Facility.
(SIC/NAICS # - 3241/32731, 3271/327331, 3273/32732, 1422/212312, 1442/212321)
Location: 11000 NW 121 Way
Lat./Long.: 25° 52' 30" N / 80° 22' 30" W.

Dear Mr. Johnson:

This is Permit Number 0250020-014-AC to construct an air pollution source issued by the **Miami-Dade County, Department of Environmental Resources Management (DERM) pursuant to Chapter 24, Code of Miami-Dade County and Chapter 403.087, Florida Statutes (F.S.).** This is a construction permit authorizing the construction of the emissions units described in the permit.

The Florida Department of Environmental Protection (FDEP) has permitting jurisdiction under Section 403.087, Florida Statutes (F.S.). However, in accordance with Section 403.182, F.S., the FDEP recognizes the DERM as the approved local air pollution control program of Miami-Dade County. Through a Specific Operating Agreement, the FDEP delegated to the DERM the authority to issue or deny permits for this type of air pollution source located in Miami-Dade County.

STATEMENT OF BASIS:

This permit is issued under the provisions of **Chapter 24, Code of Miami-Dade County, Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Rules 62-4, and 62-204 through 62-297**, and in conformance with all existing regulations of the FDEP and the DERM rules. The above named permittee is hereby authorized to perform the work or construct the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the DERM and made a part hereof and specifically described in this permit.

PERMIT CONTENTS:

Part I -- Summary Information
Part II -- Facility-Wide Specific Conditions
Part III -- Emission Unit Specific Conditions
Appendix A – General Conditions

PART I -- SUMMARY INFORMATION

This permit addresses the following air pollution emission unit(s):

Emissions Unit Number	Emissions Unit Description
026	Concrete Block Plant ~~1~~ 024

SIGNIFICANT DATES:

Public Notice of Intent Published September 4, 2002
Additional Information Received July 25, 2002
Letter from FDEP dated July 19, 2002 regarding PSD Applicabilty Determination
Application Received on July 1, 2002

PERMIT HISTORY:

The facility operates under Title V Air Operation Permit No. 0250020-011-AV.
There have been no previous air permits issued for this emissions unit.

PART II -- FACILITY-WIDE SPECIFIC CONDITIONS

1.0 Administrative Requirements

1.1 Regulating Agencies: All applications, tests, reports, notifications, or other submittals required by this permit shall be submitted to the Miami-Dade County DERM, Air Facilities Section located at 33 SW 2nd Avenue, Suite 900, Miami, Florida 33130-1540.

1.2 Citation Format: In this permit, references to **F.A.C. Rule 62-xxx refer to rules promulgated under Title 62 of the Florida Administrative Code; references (if any) to 40 CFR 60.xx (or 61.xx or 63.xx) refer to regulations codified under Part 60 (or 61 or 63) of Title 40 of the Code of Federal Regulations.**

1.3 Specific and General Conditions: The permittee shall be subject to the specific conditions of this permit and the permittee shall be aware of, and operate under, the attached General Conditions, attached as Appendix A of this permit. General Conditions are binding and enforceable pursuant to Chapter 403, F.S. [Rule 62-4.160 F.A.C.]

1.4 Applicable Regulations: This facility is subject to regulation of Florida Administrative Code (F.A.C.) Rules 62-4, and 62-204 through 62-297. Issuance of this permit does not relieve the facility permittee from compliance with any other applicable federal, state, or local permitting requirements or other regulations.

1.5 Waste Disposal: The permittee shall treat, store, and dispose of all liquid, solid and hazardous wastes in accordance with all applicable federal, state and local regulations.

1.6 Other Permits: This air pollution permit does not preclude the permittee from obtaining any other types of required permits, licenses or certifications from the DERM or other departments or agencies.

1.7 Operation Permit Required: This permit authorizes construction and/or installation of the permitted emission unit(s) and initial operation to determine compliance with the FDEP and the DERM rules. **An operation permit is required for regular operation of the permitted emission units.** The permittee shall apply for and receive an operation permit prior to expiration of this permit. An application for an operation permit shall be submitted to the Miami-Dade County DERM, Air Facilities Section. To apply for an operation permit, the applicant shall submit the appropriate application fee and, in triplicate, the appropriate application form, a certification that construction was completed with a notation of any deviations from the conditions on the construction permit, compliance test results, and such additional information as the DERM may by law require.
[Rule 62-4.030, 62-4.050, 62-4.220, and 62-210.300 F.A.C.]

1.8 Extension of This Permit: The expiration date of this construction permit may be extended upon request of the permittee and submission of the appropriate fee to the Miami-Dade County DERM, Air Facilities Section **at least 60 days prior** to the expiration date of this permit.
[Rule 62-4.030, 62-4.050, and 62-4.220 F.A.C.]

2.0 General Pollutant Emission Limiting Standards

2.1 Objectionable Odor Prohibited: No person shall cause, suffer, allow, or permit the discharge of air pollutants, which cause or contribute to an objectionable odor.
[Rule 62-296.320(2) F.A.C.]

2.2 General Visible Emissions Standard: Unless otherwise specified by permit or rule, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than 20 percent opacity at any time.
[Rule 62-296.320(4)(b) F.A.C.]

2.3 Volatile Organic Compounds/Organic Solvents Emissions: No person shall store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the DERM.

Such controls include the following:
- Tightly cover or close all VOC containers when they are not in use.
- Tightly cover all open tanks, which contain VOCs when they are not in use.
- Maintain all pipes, valves, fittings, etc., which handle VOCs in good operating condition.
- Confine rags used with VOCs to tightly closed, fireproof containers when not in use.
- Immediately confine and clean up VOC spills and make sure wastes are placed in closed containers for reuse, recycling or proper disposal.

[Rule 62-296.320(1) F.A.C.]

2.4 Unconfined Emissions of Particulate Matter: No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction, alteration, demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions.

Reasonable precautions include the following:

- Paving and maintenance of roads, parking areas and yards.
- Application of water or chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing.

- Application of asphalt, water, chemicals, or other dust suppressants to unpaved roads, yards, open stock piles, and similar activities.
- Removal of particulate matter from roads and other paved areas under the control of the permittee of the facility to prevent reentrainment, and from buildings or work areas to prevent particulate from becoming airborne.
- Landscaping or planting of vegetation.
- Use of hoods, fans, filters, and similar equipment to contain, capture, and/or vent particulate matter.
- Confining abrasive blasting where possible.
- Enclosure or covering of conveyor systems.
- Substitution of powdery materials with granular or pelletized materials, where possible.

[Rule 62-296.320(4)(c) F.A.C.]

3.0 Operation Requirements

3.1 Circumvention: No person shall circumvent any air pollution control device, or allow the emission of air pollutants without the applicable air pollution control device operating properly.
[Rule 62-210.650 F.A.C.]

4.0 Compliance Testing Requirements

4.1 Test Notification: Unless otherwise specified in this permit, the DERM Air Facilities Section shall be notified in writing of expected compliance test dates (when required) at least fifteen (15) days prior to compliance testing. The notification shall include the following information: the date, time, and location of each test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner.
[Rule 62-297.310(7)(a) 9 F.A.C.]

4.2 Testing at Capacity: Compliance testing (when required) shall be conducted with the emission units operating at the permitted capacity (90 to 100% of the maximum permitted operation rate of the emission units). If an emission unit is not tested at permitted capacity, the emission unit shall not be operated above 110% of the test load until a new test showing compliance is conducted. Operation of the emissions unit above 110% of the test load is allowed for no more than 15 days for the purpose of conducting additional compliance testing to regain the authority to operate at the permitted capacity.
[Rule 62-297.310(2) F.A.C.]

4.3 Special Compliance Tests: When the DERM, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard in Rules 62-204 through 62-297 or in a permit issued pursuant to those rules is being violated, it shall require the permittee of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the DERM.
[Rule 62-297.310(7)(b) F.A.C.]

5.0 Reporting and Record Keeping Requirements

5.1 Report Excess Emissions: In case of excess emissions resulting from malfunctions, each permittee shall notify the DERM in accordance with Rule 62-4.130, F.A.C. (condition 5.2 below). A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the DERM.
[Rule 62-210.700(6) F.A.C.]

5.2 Report Plant Operation Problems: If the permittee is temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by hazard of fire, wind or by other cause, the permittee shall immediately notify the DERM. Notification shall include pertinent information as to the cause of the problem, and what steps are being taken to correct the problem and to prevent its recurrence, and where applicable, the owner's intent toward reconstruction of destroyed facilities. Such

notification does not release the permittee from any liability for failure to comply with the FDEP and the DERM rules.
[Rule 62-4.130 F.A.C.]

5.3 Retain Records: All records required by this permit shall be kept by the permittee and made available for the DERM inspection for a minimum of three (3) years from the date of such records.
[Rule 62-4.160(14)(b) F.A.C.]

5.4 Compliance Test Reports: Compliance test reports (when required) shall be submitted to the DERM Air Facilities Section, as soon as practical, but no later than 45 days after the last sampling run of each test is completed.
[Rule 62-297.310(8)(a) &(b) F.A.C.]

Test reports shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the DERM to determine if the test was properly conducted and the test results properly computed. Test reports, other than for an EPA Method 9 test, shall include the following information and other information as necessary to make a complete report required pursuant to F.A.C. Rule 297.310(8)(c):

- The normal type and amount of fuels used and materials processed, and the types and amounts of fuels used and material processed during each test run.
- The means, raw data and computations used to determine the amount of fuels used and materials processed, if necessary to determine compliance with an applicable emission limiting standard.
- The type of air pollution control devices installed on the emissions unit, their general condition, their normal operating parameters (pressure drops, total operating current and GPM scrubber water), and their operating parameters during each test run.
- All measured and calculated data required to be determined by each applicable test procedure for each run.
- The detailed calculations for one run that relate the collected data to the calculated emission rate.
- The applicable emission standard, and the resulting maximum allowable emission rate for the emissions unit, plus the test result in the same form and unit of measure.

5.5 Annual Report Required: On or before March 1 of each calendar year, a completed DEP Form 62-210.900(5), Annual Operating Report (AOR) Form for Air Pollutant Emitting Facility, shall be submitted to the Miami-Dade County DERM, Air Facilities Section. Included with this report shall be any additional reports, if any, required by this permit in Part III -- Emission Unit Specific Conditions.
[Rule 62-210.370(3) F.A.C.]

PART III -- EMISSION UNIT SPECIFIC CONDITIONS

This part of this permit addresses the following emission units:

Emissions Unit Number	Emissions Unit Description
026	Concrete Block Plant with a design capacity of 5,500 blocks per hour (approximately 96 tons per hour of concrete block). The block plant consists of three (3) Aggregate Storage Silos with Weigh Hoppers, and two (2) Cement Storage Silos. Each Cement Storage Silo has 2 Baghouses, a Mixer, and a Weigh Hopper with Baghouse. A total of 6 baghouses are associated with the Concrete Block Plant. See table below for baghouse design specifications.

Concrete Block Plant Baghouse Design Specifications

Source ID	Manufacturer	Model No..	Number of Cartridges	Flow Rate (acfm)	Cloth Area (ft^2)	Air to Cloth Ratio
Cement Silo #1	C & W Mfg.	CP-310 [2 units]	4	1600	304	5.3
Cement Silo #2	C & W Mfg.	CP-310 [2 units]	4	1600	304	5.3
Weigh Hopper #1	C & W Mfg.	CP-100 [1 unit]	1	400	110	4.0
Weigh Hopper #2	C & W Mfg.	CP-100 [1 unit]	1	400	110	4.0

1.0 Essential Potential to Emit (PTE) Parameters

1.1 Hours of Operation: The Concrete Block Plant may not operate in excess of 20 hours/day, 6 days/week for 52 weeks/year resulting in a total of 6,240 hrs/year.
[Rule 62-4.070(3) F.A.C.; Requested by Permittee in Application received July 1, 2002]

1.2 Visible Emissions: Emissions from silos, weigh hoppers (batchers), and other enclosed storage and conveying equipment shall be controlled to the extent necessary to limit visible emissions to 5 percent opacity.
[Rule 62-296.414(1), F.A.C.]

2.0 Testing and Recordkeeping Requirements

2.1 Unconfined Emissions: The permittee shall take reasonable precautions to control unconfined emissions from hoppers, storage and conveying equipment, conveyor drop points, truck loading and unloading, roads, parking areas, stock piles, and yards as required by Rule 62-296.320(4)(c), F.A.C. and Facility-Wide Specific Condition No. 2.4 of this permit. The following shall constitute additional reasonable precautions for the concrete block plant:

- Reduction of stock pile height or installation of wind breaks to mitigate wind entrainment of particulate matter from stock piles.
- Use of spray bar, chute, or partial enclosure to mitigate emissions at the drop point to the truck.

[Rule 62-296.414(2), F.A.C.]

2.2 Test Methods & Procedures: All emissions tests performed shall comply with the following requirements.
(a) The test method for visible emissions shall be EPA Method 9.
(b) Test procedures shall meet all applicable requirements of Chapter 62-297, F.A.C.
(c) Visible emissions tests of silo dust collector exhaust points shall be conducted while loading the silo at a rate that is representative of the normal silo loading rate. The minimum loading rate shall be 25 tons per hour unless such rate is unachievable in practice. If emissions from the weigh hopper

(batcher) operation are also controlled by the silo dust collector, then the batching operation shall be in operation during the visible emissions test. The batching rate during the emissions test shall be representative of the normal batching rate and duration. Each test report shall state the actual silo loading rate during emissions testing and, if applicable, whether or not batching occurred during emissions testing.

(d) If emissions from the weigh hopper (batcher) operation are controlled by a dust collector which is separate from the silo dust collector, visible emissions tests of the weigh hopper (batcher) dust collector exhaust point shall be conducted while batching at a rate that is representative of the normal batching rate and duration. Each test report shall state the actual batching rate during emissions testing.

(e) Each dust collector exhaust point shall be tested for a minimum of 30 minutes or, if the operation is normally completed within less than 30 minutes and does not recur within that time, the test shall last for the length of the loading operation.

[Rule 62-296.414(3), and 62-297.310(4)(a), F.A.C.]

2.3 Annual Testing: Each dust collector exhaust point shall be tested annually for compliance with the visible emission limiting standard of Rule 62-296.414(1), F.A.C.
[Rule 62-296.414(4), F.A.C.]

2.5 Record of Operating Hours: The permittee shall keep a daily log of the number of hours of operation.
[Rule 62-4.070(3) F.A.C.]

Executed in Miami-Dade County, Florida.

DEPARTMENT OF ENVIRONMENTAL
RESOURCES MANAGEMENT

H. Patrick Wong, Chief — Date 9/20/02
Air Quality Management Division

HPW/cj

Copy: Scott Sheplak, Florida Department of Environmental Protection (FDEP), Tallahassee
Tom Tittle, FDEP Air Program, Southeast District Office
Scott Quaas, Tarmac

FILING AND ACKNOWLEDGMENT: FILED, on this date, pursuant to § 120.52(7), F.S., with the designated DERM Clerk, receipt of which is hereby acknowledged.

Clerk — Date 9/20/02

APPENDIX A
GENERAL PERMIT 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, Florida Statutes. The permittee is placed on notice that the DERM 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 or exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the DERM.

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 DERM permit that may be required for other aspects of the total project which are not addressed in the 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 Florida Statutes and DERM rules, unless specifically authorized by an order from the DERM.

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 DERM 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 DERM rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized DERM 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 DERM 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 DERM 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 DERM 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 DERM may be used by the DERM as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or DERM rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extend it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in DERM 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 DERM rules.

11. This permit is transferable only upon DERM 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 DERM.

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

13. The permittee shall comply with the following:

    (a) Upon request, the permittee shall furnish all records and plans required under DERM rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the DERM.

    (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 DERM 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.

14. When requested by the DERM, 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 DERM, such facts or information shall be corrected promptly.

TECHNICAL EVALUATION

Air Permit No. 0250020-014-AC
Tarmac Pennsuco
11000 NW 121 Way
Medley, Fl. 33178

1.1 Applicant

Tarmac America, LLC
455 Fairway Drive
Deerfield Beach, FL 33441

Authorized Representative:
Hardy Johnson, President, Florida Division

1.2 Application Review

07/01/2002: DERM received air construction permit application
07/23/2002: DERM received FDEP PSD applicability determination letter
07/25/2002: DERM received additional information from Tarmac

2.0 FACILITY INFORMATION

2.1 Location

Tarmac Pennsuco
11000 NW 121 Way
Medley, FL. 33178

2.2 Permit History

The Tarmac Pennsuco facility operates under Title V Air Operation Permit No. 0250020-11-AV and includes a concrete block plant with emissions unit ID No. 022. No previous air permits have been issued for the proposed replacement block plant.

3.0 PROJECT DESCRIPTION

Tarmac Pennsuco is an existing, major source cement manufacturing facility that has requested an air construction permit for the relocation and replacement of a concrete block plant. The proposed replacement block plant is to be located approximately 1/2 mile east of the existing block plant which has been in operation at least since 1978.

According to calculations submitted with the construction permit application, based on baghouse efficiency of 99%, the total controlled PM emissions are 0.19 tons/year.

The application was forwarded to FDEP for a PSD applicability determination on July 12, 2002. Based on the attached FDEP letter dated July 19, 2002 from the New Source Review Section, it is FDEP's determination that this project does not require PSD review since the estimated maximum total controlled PM emissions for this project of 0.82 tons/year are below the requirements of New Source Review (25 tons/year).

4.0 RULE APPLICABILITY

Chapter 62-4, F.A.C. - Permits.
Chapter 62-204, F.A.C. - Air Pollution Control - General Provisions
Chapter 62-210, F.A.C. - Stationary Sources - General Requirements
Chapter 62-212, F.A.C. - Stationary Sources - Preconstruction Review
Chapter 62-213, F.A.C. - Operation Permits for Major Sources of Air Pollution
Chapter 62-296.320, F.A.C. - General Visible Emissions & Unconfined Emissions
Chapter 62-296.414, F.A.C. - Stationary Sources - Emissions Standards, Concrete Batching Plants
Chapter 62-297, F.A.C. - Stationary Sources - Emissions Monitoring

5.0 CONCLUSION

Based on the information provided by the applicant, the DERM believes that there is reasonable assurance that the proposed project, as described in this evaluation, and subject to the conditions in the proposed draft permit, will not:

- Discharge, emit, or cause pollution in contravention of DEP standards or rules.
- Cause or contribute to a violation of any air quality standard of the Florida Administrative Code.
- Interfere with reasonable further progress toward maintaining the ambient air quality standards.

Therefore, the DERM intends to issue the proposed Draft Permit with the given specific conditions.

Prepared by Date

Reviewed by Date

Department of Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

July 19, 2002

Mallika Muthiah, P.E.
Chief, Air Facilities Section
Miami Dade DERM
33 SW 2nd Avenue
Miami, FL 33130-1540

Re: Tarmac AC Permit Application (Dated 6/25/02)
Relocation and Replacement of Existing Concrete Block Plant (at Tarmac Pennsuco, Medley, FL)
Permit No. 0250020-014-AC

Dear Ms. Muthiah:

As you know, Tarmac Pennsuco is a wet-process Portland cement plant located in Medley, Florida. This plant is owned by Tarmac America LLC and is an existing, major source pursuant to State Prevention of Significant Deterioration (PSD) rules. Accordingly, requests from Tarmac for air construction (AC) permits should be reviewed by the Department of Environmental Protection (DEP), New Source Review Section, for PSD applicability.

To facilitate such a review for Tarmac's recent AC permit application (for the relocation and replacement of the existing concrete block plant; Permit No. 0250020-014-AC), you forwarded a copy of the application to DEP on July 12, 2002. While DEP does not feel that this project triggers the requirements of New Source Review, we do have several comments and concerns.

PM Emission Calculations. Tarmac estimated the potential particulate matter (PM) emissions from the new concrete block plant as part of their application (reference Attachment TA-E022-L2, Emissions Calculations). The DEP has several questions about these calculations.

1. The number of cement unloadings and the time required for each unloading seem irrelevant. The AP-42 emission factor for cement unloading to elevated storage silos is provided in emissions per mass of material transferred.[1] Based on the application, the new concrete block plant would have a capacity of 5500 blocks per hour (requiring 8.53 tons of cement/5500 blocks) = 0.00155 tons cement per block. In one year of operation (limited to 6,240 hours), this equates to (0.00155)(5500)(6240) = 53,227 tons cement transferred to the storage silos. At 0.72 lb PM/ton cement transferred, uncontrolled PM emissions from the cement storage silos are thereby estimated to be 19.2 tons per year.
2. Tarmac's calculation for PM from the weigh hopper/mixer assumes a single weigh hopper/mixer that only processes cement from the cement storage silos. Looking at Attachment TA-E022-L1, Process Flow Diagram, it is clear that there are a number of weigh hoppers. Each of the three aggregate storage silos has a weigh hopper, as do each of the two cement storage silos. The aggregate weigh hoppers process a total of 81.68 tons aggregate per hour, and the cement silo

weigh hoppers process a total of 8.53 tons cement per hour. The mixer, however, would appear to process (8.53 + 81.68) = 90.21 tons of material per hour.

3. The DEP agrees with the rational for assuming aggregate storage and silo loading PM emissions are negligible. Likewise, DEP agrees with the suggested control for PM emissions from unpaved roads. Both of the paragraphs listed under "unconfined emissions" in Tarmac's emission calculation should be included as conditions in the AC permit.

The following table summarizes DEP's calculations of PM emissions from the new concrete block plant. (PM = emission factor * throughput * 6,240 hours/year * 1 ton/2000 lbs)

Emission Source	Emission Factor	Throughput	Uncontrolled PM
Aggregate Silo Loading	Negligible	81.68 ton/hr	Negligible
Aggregate Weigh Hopper Loading	0.0051 lb/ton	81.68 ton/hr	1.3 tons/year
Cement Silo Loading	0.72 lb/ton	8.53 ton/hr	19 tons/year
Cement Weigh Hopper Loading	0.0051 lb/ton	8.53 ton/hr	0.14 tons/year
Mixer Loading	0.22 lb/ton	90.21 ton/hr	62 tons/year

Assuming 99 percent control efficiency for the baghouses, this results in maximum total controlled PM emissions of 0.82 tons/year. This is well below the significant emission rate for PM (25 tons/year).

"Debottlenecking" the Kiln. The new, replacement concrete block plant has a capacity 80 percent larger than the existing plant (5500 blocks per hour versus current capacity of 3000 blocks per hour). To meet the new demand for 2500 blocks per hour, the existing wet-process Portland cement plant would have to produce additional cement. Based on the numbers in Tarmac's application, 24,000 tons per year of cement would be required to make the additional concrete blocks. While this is only a three percent increase compared to current production levels (approximately 757,000 tons of cement per year), a three percent increase in kiln NO_x and SO_2 would trigger the PSD significance levels for those pollutants.

For example, current NO_x emissions are around 2300 tons per year. A three percent increase in NO_x would yield an additional 70 tons per year, which is greater than the significant emissions rate of 40 tons per year.

To avoid PSD implications, the AC permit should provide assurances that cement is only being "shifted" from other products to the concrete block plant. There must not be an increase in cement production from the existing wet-process kilns to meet the new capacity of the concrete block plant. In other words, for DEP's PSD determination to remain valid, the AC permit must maintain the current production limits for the existing wet-process kilns.

Please feel free to contact me with any additional questions or comments at (850)921-9506.

Sincerely,

Greg DeAngelo, P.E.
New Source Review Section

[1] EPA Report. "Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1: Stationary Point and Area Sources." Section 11.12, Concrete Batching. October 2001.

FE / E.V.A.

Florida Department of
Environmental Protection

Lawton Chiles
Governor

Southeast District
P.O. Box 15425
West Palm Beach, Florida 33416

RECEIVED
DEC 13 1993

Virginia B. Wetherell
Secretary

ENVIRONMENTAL
MONITORING DIVISION

TO: BROWARD COUNTY OFFICE OF NATURAL RESOURCE PROTECTION
BROWARD COUNTY PUBLIC HEALTH UNIT
DADE COUNTY PUBLIC HEALTH UNIT
METROPOLITAN DADE COUNTY ENVIRONMENTAL RESOURCE MANAGEMENT
PALM BEACH COUNTY PUBLIC HEALTH UNIT

FROM: I. Goldman, P.E., West Palm Beach

DATE: 12/13/93

SUBJECT: APPLICATION

APPLICATION FILE NO: AC-13-242281

APPLICATION NAME: Tarmac Pensuco Block Plant

This office has received the following application for:

- ✓ Air Pollution Source
- ____ Domestic Wastewater
- ____ Drainage Well
- ____ Hazardous Waste Facility
- ____ Industrial Wastewater
- ____ Injection Well
- ____ Public Water Well/Plant
- ____ Solid Waste Facility

for

- ✓ Construct Permit
- ____ Operating Permit
- ____ Temporary Operating Permit

Your comments regarding completeness of the application are requested by 12/27/93.

A copy of the application has been provided to you by:

- ____ The applicant or his engineer; or
- ✓ is attached

If you have any questions please call (407)433-2650.

Florida Department of Environmental Regulation
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

RECEIVED
DEC 13 1993
DEPT. OF ENV. PROTECTION
WEST PALM BEACH

DER Form #
Form Title
Effective Date
DER Application No. (Filled in by DER)

AC-13-242281

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

RECEIVED
NOV 13 1993
DEPT. OF ENV. PROTECTION
WEST PALM BEACH

SOURCE TYPE: Concrete Batch Plant [ ] New[1] [•] Existing[1]

APPLICATION TYPE: [•] Construction [ ] Operation [•] Modification

COMPANY NAME: TARMAC FLORIDA, INC. COUNTY: Dade

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Pennsuco Block Plant Unit #1

SOURCE LOCATION: Street 11000 NW 121 Way City Medley

UTM: East 17; 562.4 North 2862.1

Latitude 25 ° 52 ' 39 "N Longitude 80 ° 22 ' 38 "W

APPLICANT NAME AND TITLE:

APPLICANT ADDRESS:

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of TARMAC FLORIDA, INC.

I certify that the statements made in this application for a construction permit are true, correct and complete to the best of my knowledge and belief. Further, I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I also understand that a permit, if granted by the department, will be non-transferable and I will promptly notify the department upon sale or legal transfer of the permitted establishment.

*Attach letter of authorization

Signed:

Scott Quaas - Environmental Manager
Name and Title (Please Type)

Date: 07 DEC 1993 Telephone No. (305)481-2800

B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project have been ~~designed~~/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that

[1] See Florida Administrative Code Rule 17-2.100(57) and (104)

Northwest District 160 Governmental Center Pensacola, Florida 32501-5794 904-436-8300
Northeast District 3426 Bills Rd. Jacksonville, Florida 32207 904-798-4200
Central District 3319 Maguire Blvd. Suite 232 Orlando, Florida 32803-3767 407-894-7555
Southwest District 4520 Oak Fair Blvd. Tampa, Florida 33610-7347 813-623-5561
South District 2269 Bay St. Fort Myers, Florida 33901-2896 813-332-2687
Southeast District 1900 S. Congress Ave., Suite A West Palm Beach, Florida 33406 407-964-9668

the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

Signed John D. Light

John D. Light - Engineering Manager
Name (Please Type)

Tarmac Florida, Inc.
Company Name (Please Type)

455 Fairway Drive, Deerfield Beach, FL 33441
Mailing Address (Please Type)

Florida Registration No. 43339 Date: 12-9-93 Telephone No. (305)481-2800

SECTION II: GENERAL PROJECT INFORMATION

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

Reactivation/modification/startup of block plant unit #1 to produce 1200 blocks/hour [8" equivalent units] or approximately 11 yd³/hour of concrete. Emissions from cement storage silo and weigh hopper will be controlled by baghouses. Source will be in full compliance.

B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction *upon permit issuance* Completion of Construction *90 days*

C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)

$10,000

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

Block Plant Unit #2 – AO13-168523

E. Requested permitted equipment operating time: hrs/day 16 ; days/wk 6 ; wks/yr 52 ;

if power plant, hrs/yr_____; if seasonal, describe:_____

F. If this is a new source or major modification, answer the following questions. (Yes or No)

1. Is this source in a non-attainment area for a particular pollutant? Yes

   a. If yes, has "offset" been applied? NA

   b. If yes, has "Lowest Achievable Emission Rate" been applied? NA

   c. If yes, list non-attainment pollutants. ozone - will have an insignificant impact

2. Does best available control technology (BACT) apply to this source? If yes, see Section VI. No

3. Does the State "Prevention of Significant Deterioriation" (PSD) requirement apply to this source? If yes, see Sections VI and VII. No

4. Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source? No

5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source? No

H. Do "Reasonably Available Control Technology" (RACT) requirements apply to this source? No

   a. If yes, for what pollutants?_____

   b. If yes, in addition to the information required in this form, any information requested in Rule 17-2.650 must be submitted.

Attach all supportive information related to any answer of "Yes". Attach any justification for any answer of "No" that might be considered questionable.

SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)

A. Raw Materials and Chemicals Used in your Process, if applicable:

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
cement	*particulates*	*±1 %*	*3,720*	*1 - A,B,C*
coarse aggregate	*NA-wet*		*13,680*	*2 - A,B,C*
fine aggregate	*NA-wet*		*21,960*	*2 - A,B,C*
water	*NA*		*2,640*	*3*

B. Process Rate, if applicable: (See Section V, Item 1)

1. Total Process Input Rate (lbs/hr): *42,000*

2. Product Weight (lbs/hr): *42,000*

C. Airborne Contaminants Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary)

Name of Contaminant	Emission[1]		Allowed[2] Emission Rate per Rule 17-2	Allowable[3] Emission lbs/hr	Potential[4] Emission		Relste to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
particulates	*0.072*	*0.023*	*17-2.610(2)(a)*	*< 5 %*			*5 - A,B*
			FAC	*visible*			
				emissions			

[1]See Section V, Item 2.

[2]Reference applicable emission standards and units (e.g. Rule 17-2.600(5)(b)2. Table II, E. (1) - 0.1 pounds per million BTU heat input)

[3]Calculated from operating rate and applicable standard.

[4]Emission, if source operated without control (See Section V, Item 3).

D. Control Devices: (See Section V, Item 4)

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
MTM Model SFV-170	*particulates*	*±99 %*	*0.5 - 80 µ*	*AP-42*
MTM Model BFV-15	*particulates*	*±99 %*	*0.5 - 80 µ*	*AP-42*

E. Fuels *NA*

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	

*Units: Natural Gas--MMCF/hr; Fuel Oils--gallons/hr; Coal, wood, refuse, other--lbs/hr.

Fuel Analysis:

Percent Sulfur:_____ Percent Ash:_____

Density: _____ lbs/gal Typical Percent Nitrogen:_____

Heat Capacity: _____ BTU/lb _____ BTU/gal

Other Fuel Contaminants (which may cause air pollution):_____

F. If applicable, indicate the percent of fuel used for space heating.

Annual Average _____ Maximum _____

G. Indicate liquid or solid wastes generated and method of disposal.

cull and waste concrete discharged on site then hauled away as fill material

H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):

Stack Height: See "Emission Control Systems" sheet ft. Stack Diameter: _____ ft.

Gas Flow Rate: _____ ACFM _____ DSCFM Gas Exit Temperature: _____ °F.

Water Vapor Content: _____ % Velocity: _____ FPS

SECTION IV: INCINERATOR INFORMATION

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq.& Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated							
Uncontrolled (lbs/hr)							

Description of Waste _____

Total Weight Incinerated (lbs/hr) _____ Design Capacity (lbs/hr) _____

Approximate Number of Hours of Operation per day _____ day/wk _____ wks/yr. _____

Manufacturer _____

Date Constructed _____ Model No. _____

	Volume $(ft)^3$	Heat Release (BTU/hr)	Fuel		Temperature (°F)
			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

Stack Height: _____ ft. Stack Diamter: _____ Stack Temp. _____

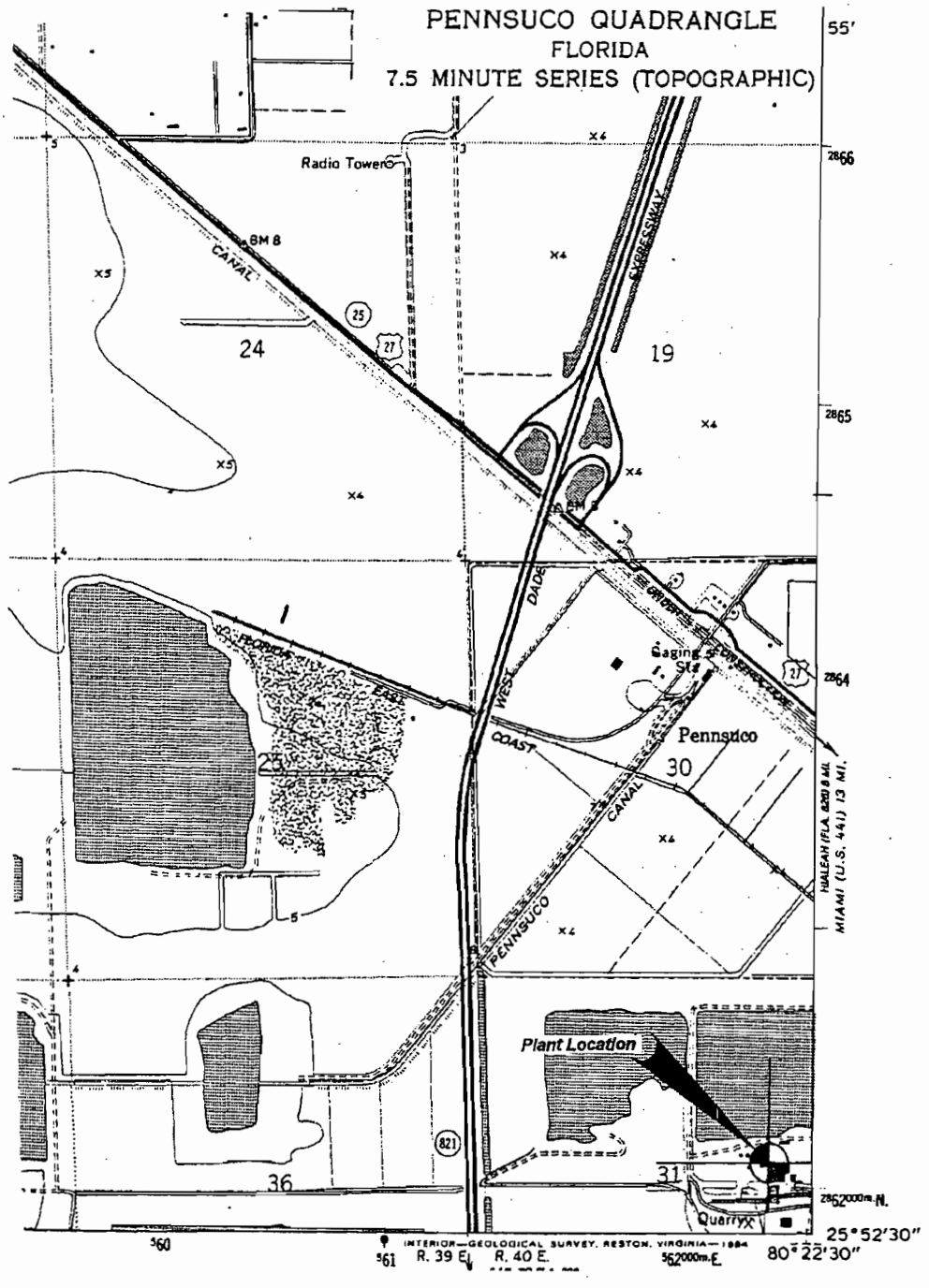
Gas Flow Rate: _____ ACFM _____ DSCFM* Velocity: _____ FPS

*If 50 or more tons per day design capacity, submit the emissions rate in grains per standard cubic foot dry gas corrected to 50% excess air.

Type of pollution control device: [ ] Cyclone [ ] Wet Scrubber [ ] Afterburner

[ ] Other (specify) _____

PLANT LOCATION



Tarmac	PENNSUCO CONCRETE BLOCK PLANT Unit #1 ap-appl.pen [12/93]

EMISSION CALCULATIONS

Production Rate: [maximum]	1200 block/hour (21.0 ton/hour = 11 yd^3/hr) 16 hrs/day, 6 days/wk, 52 wks/yr = 4992 hrs/yr		
Material Use: [maximum]	cement	=	1.9 tons/hr
	sand & aggregate	=	17.8 tons/hr
Unloading: [maximum]	cement	9,485 tons/yr / 25 tons/unloading	= 379 unloading/yr

UNCONTROLLED EMISSIONS: Factors taken from EPA publication "Compilation of Air Pollutant Emission Factors" Supplement A - October 1986.

♦ storage silos:	(1@ 25.0 tons/hr) x (.27 lb/ton mtl)	=	6.8 lb/hr
♦ weigh hopper:	(17.8 tons/hr) x (.02 lb/ton mtl)	=	0.4 lb/hr
■ **TOTAL UNCONTROLLED EMISSIONS [MAXIMUM]**		=	7.2 lb/hr

CONTROLLED EMISSIONS: based on baghouse efficiency of 99% (AP-40, AP-42 & BEP)

♦ storage silos:	(6.8 lb/hr) x (1 - 0.99)	=	0.068 lb/hr
	(0.07 lb/hr) x (379 hrs unloading/yr) / (2000 lb/ton)	=	0.013 ton/yr
♦ weigh hopper:	(0.4 lb/hr) x (1 - 0.99)	=	0.004 lb/hr
	(0.004 lb/hr) x (4992 hrs/yr) / (2000 lb/ton)	=	0.010 ton/yr
■ **TOTAL CONTROLLED EMISSIONS [MAXIMUM]**		=	0.072 lb/hr
		=	0.023 ton/yr

UNCONFINED EMISSIONS:

♦ aggregates unconfined particulate emissions from transfer to storage bins and wind erosion of storage piles will be negligible; materials are kept wet from sprinklers for product quality control

♦ vehicle traffic unconfined particulate emissions from vehicular traffic on unpaved roads or yard areas controlled as necessary by application of water or other dust suppressants

FLOW DIAGRAM

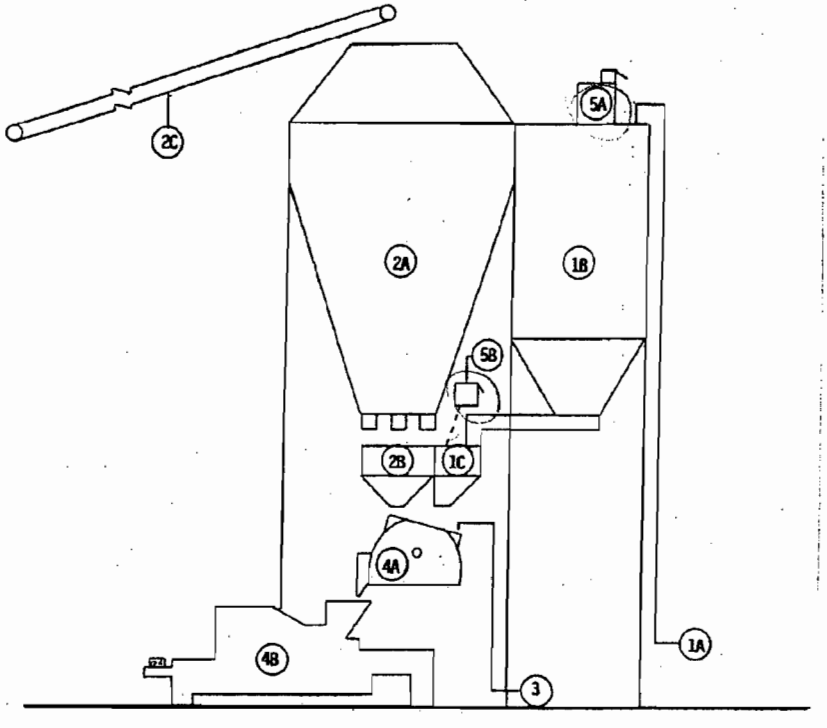
1) CEMENT/FLYASH
   A. INLET
   B. CEMENT STORAGE SILO
   C. WEIGH HOPPER

2) AGGREGATE
   A. STORAGE BIN
   B. WEIGH HOPPER
   C. CONVEYOR

3) WATER

4) BLOCK PLANT
   A. MIXER
   B. BLOCK MACHINE

5) EMISSION CONTROLS
   A. STORAGE SILO DUST COLLECTOR
   B. WEIGH HOPPER DUST COLLECTOR



Tarmac

PENNSUCO
CONCRETE BLOCK PLANT
Unit #1

- **MTM Model SFV-170**

Model SFV-170 dust collector mounted on cement and flyash storage silos. Each collector has 16 - 7" x 72" bags with 170 square feet of cloth area for an air to cloth ratio of 3.8: 1. The collector utilizes a vibratory mechanism to clean the bags.

- Vent Height: ±50 ft.
- Gas Flow Rate: 650 CFM
- Water Vapor Content: ambient
- Vent Area: 0.56 ft²
- Gas Exit Temperature: ambient
- Velocity: 19.5 FPS

- **MTM Model BFV-15**

Batcher vent dust collector mounted on plant for weigh hopper emissions. Collector has 4 - 7" x 24" bags with 15 square feet of cloth area for an air to cloth ratio of 4 : 1. The collector is non-mechanical and is passively cleaned by reverse air.

- Vent Height: ±20 ft.
- Gas Flow Rate: 90 CFM
- Water Vapor Content: ambient
- Vent Area: 0.25 ft²
- Gas Exit Temperature: ambient
- Velocity: 6.0 FPS

- **Efficiency Derivation**

Basis for efficiency from EPA publication AP-40 "Air Pollution Engineering Manual, AP-42 "Compilation of Air Pollutant Emission Factors", and best engineering practices.

Baghouse: Overall Efficiency ± 99%

Department of Environmental Protection

Division of Air Resources Management

APPLICATION FOR AIR PERMIT - TITLE V SOURCE

See Instructions for Form No. 62-210.900(1)

I. APPLICATION INFORMATION

Identification of Facility

1. Facility Owner/Company Name: **Tarmac America, LLC**	
2. Site Name: **Tarmac Pennsuco**	
3. Facility Identification Number: **0250020** [ ] Unknown	
4. Facility Location: **11000 NW 121 Way** Street Address or Other Locator: City: **Medley** County: **Dade** Zip Code: **33178**	
5. Relocatable Facility? [ ] Yes [**X**] No	6. Existing Permitted Facility? [**X**] Yes [ ] No

Application Contact

1. Name and Title of Application Contact: **Scott Quaas – Environmental Manager**
2. Application Contact Mailing Address: Organization/Firm: **Tarmac America, LLC** Street Address: **455 Fairway Drive** City: **Deerfield Beach** State: **Florida** Zip Code: **33441**
3. Application Contact Telephone Numbers: Telephone: **(954) 425 - 4165** Fax: **(954) 480 - 9352**

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	
2. Permit Number:	
3. PSD Number (if applicable):	
4. Siting Number (if applicable):	

DERM File Copy

PROJECT NO 0250020-015-AC

WITHDRAWN TO INCORPORATE INTO PROJECT 013-AV

APPLICATION FOR TITLE V REVISION FOR TARMAC PENNSUCO BLOCK PLANT

Prepared For:

Tarmac America, LLC
455 Fairway Drive
Deerfield Beach, FL 33441

Prepared By:

Golder Associates Inc.
6241 NW 23rd Street, Suite 500
Gainesville, Florida 32653-1500

August 2003
0237559

DISTRIBUTION:
4 Copies – FDEP
2 Copies – Tarmac
2 Copies – Golder Associates Inc.

MIAMI-DADE COUNTY, FLORIDA

MIAMI-DADE

DERM

ENVIRONMENTAL RESOURCES MANAGEMENT
AIR QUALITY MANAGEMENT DIVISION
33 S.W. 2nd AVENUE
SUITE 900
MIAMI, FLORIDA 33130-1540
TELEPHONE: (305) 372-6925
FAX: (305) 372-6954

September 20, 2002

NOTICE OF AIR POLLUTION PERMIT

CERTIFIED MAIL NO.: 7000 0600 0025 3506 2242
RETURN RECEIPT REQUESTED

ISSUED TO:

Mr. Hardy Johnson
President, Florida Division
Tarmac America, LLC
455 Fairway Drive
Deerfield Beach, FL 33441

Permit Number: 0250020-014-AC
Issue Date: **September 20, 2002**
Expiration Date: September 19, 2003

Project: An Air Construction Permit to construct a concrete block plant at Tarmac Pennsuco.
Facility Description: Facility is a Portland Cement Manufacturing Facility.
(SIC/NAICS # - 3241/32731, 3271/327331, 3273/32732, 1422/212312, 1442/212321)
Location: 11000 NW 121 Way
Lat./Long.: 25° 52' 30" N / 80° 22' 30" W.

Dear Mr. Johnson:

This is Permit Number 0250020-014-AC to construct an air pollution source issued by the **Miami-Dade County, Department of Environmental Resources Management (DERM) pursuant to Chapter 24, Code of Miami-Dade County and Chapter 403.087, Florida Statutes (F.S.).** This is a construction permit authorizing the construction of the emissions units described in the permit.

The Florida Department of Environmental Protection (FDEP) has permitting jurisdiction under Section 403.087, Florida Statutes (F.S.). However, in accordance with Section 403.182, F.S., the FDEP recognizes the DERM as the approved local air pollution control program of Miami-Dade County. Through a Specific Operating Agreement, the FDEP delegated to the DERM the authority to issue or deny permits for this type of air pollution source located in Miami-Dade County.

STATEMENT OF BASIS:

This permit is issued under the provisions of **Chapter 24, Code of Miami-Dade County, Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Rules 62-4, and 62-204 through 62-297**, and in conformance with all existing regulations of the FDEP and the DERM rules. The above named permittee is hereby authorized to perform the work or construct the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the DERM and made a part hereof and specifically described in this permit.

PERMIT CONTENTS:

PART I -- SUMMARY INFORMATION

This permit addresses the following air pollution emission unit(s):

Emissions Unit Number	Emissions Unit Description
026	Concrete Block Plant

SIGNIFICANT DATES:

Public Notice of Intent Published September 4, 2002
Additional Information Received July 25, 2002
Letter from FDEP dated July 19, 2002 regarding PSD Applicabilty Determination
Application Received on July 1, 2002

PERMIT HISTORY:

The facility operates under Title V Air Operation Permit No. 0250020-011-AV.
There have been no previous air permits issued for this emissions unit.

PART II -- FACILITY-WIDE SPECIFIC CONDITIONS

1.0 Administrative Requirements

1.1 Regulating Agencies: All applications, tests, reports, notifications, or other submittals required by this permit shall be submitted to the Miami-Dade County DERM, Air Facilities Section located at 33 SW 2nd Avenue, Suite 900, Miami, Florida 33130-1540.

1.2 Citation Format: In this permit, references to **F.A.C. Rule 62-xxx refer to rules promulgated under Title 62 of the Florida Administrative Code; references (if any) to 40 CFR 60.xx (or 61.xx or 63.xx) refer to regulations codified under Part 60 (or 61 or 63) of Title 40 of the Code of Federal Regulations.**

1.3 Specific and General Conditions: The permittee shall be subject to the specific conditions of this permit and the permittee shall be aware of, and operate under, the attached General Conditions, attached as Appendix A of this permit. General Conditions are binding and enforceable pursuant to Chapter 403, F.S. [Rule 62-4.160 F.A.C.]

1.4 Applicable Regulations: This facility is subject to regulation of Florida Administrative Code (F.A.C.) Rules 62-4, and 62-204 through 62-297. Issuance of this permit does not relieve the facility permittee from compliance with any other applicable federal, state, or local permitting requirements or other regulations.

1.5 Waste Disposal: The permittee shall treat, store, and dispose of all liquid, solid and hazardous wastes in accordance with all applicable federal, state and local regulations.

1.6 Other Permits: This air pollution permit does not preclude the permittee from obtaining any other types of required permits, licenses or certifications from the DERM or other departments or agencies.

1.7 Operation Permit Required: This permit authorizes construction and/or installation of the permitted emission unit(s) and initial operation to determine compliance with the FDEP and the DERM rules. **An operation permit is required for regular operation of the permitted emission units.** The permittee shall apply for and receive an operation permit prior to expiration of this permit. An application for an operation permit shall be submitted to the Miami-Dade County DERM, Air Facilities Section. To apply for an operation permit, the applicant shall submit the appropriate application fee and, in triplicate, the appropriate application form, a certification that construction was completed with a notation of any deviations from the conditions on the construction permit, compliance test results, and such additional information as the DERM may by law require.
[Rule 62-4.030, 62-4.050, 62-4.220, and 62-210.300 F.A.C.]

1.8 Extension of This Permit: The expiration date of this construction permit may be extended upon request of the permittee and submission of the appropriate fee to the Miami-Dade County DERM, Air Facilities Section **at least 60 days prior** to the expiration date of this permit.
[Rule 62-4.030, 62-4.050, and 62-4.220 F.A.C.]

2.0 General Pollutant Emission Limiting Standards

2.1 Objectionable Odor Prohibited: No person shall cause, suffer, allow, or permit the discharge of air pollutants, which cause or contribute to an objectionable odor.
[Rule 62-296.320(2) F.A.C.]

2.2 General Visible Emissions Standard: Unless otherwise specified by permit or rule, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than 20 percent opacity at any time.
[Rule 62-296.320(4)(b) F.A.C.]

2.3 Volatile Organic Compounds/Organic Solvents Emissions: No person shall store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the DERM.

Such controls include the following:

- Tightly cover or close all VOC containers when they are not in use.
- Tightly cover all open tanks, which contain VOCs when they are not in use.
- Maintain all pipes, valves, fittings, etc., which handle VOCs in good operating condition.
- Confine rags used with VOCs to tightly closed, fireproof containers when not in use.
- Immediately confine and clean up VOC spills and make sure wastes are placed in closed containers for reuse, recycling or proper disposal.

[Rule 62-296.320(1) F.A.C.]

2.4 Unconfined Emissions of Particulate Matter: No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction, alteration, demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions.

Reasonable precautions include the following:

- Paving and maintenance of roads, parking areas and yards.
- Application of water or chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing.

- Application of asphalt, water, chemicals, or other dust suppressants to unpaved roads, yards, open stock piles, and similar activities.
- Removal of particulate matter from roads and other paved areas under the control of the permittee of the facility to prevent reentrainment, and from buildings or work areas to prevent particulate from becoming airborne.
- Landscaping or planting of vegetation.
- Use of hoods, fans, filters, and similar equipment to contain, capture, and/or vent particulate matter.
- Confining abrasive blasting where possible.
- Enclosure or covering of conveyor systems.
- Substitution of powdery materials with granular or pelletized materials, where possible.

[Rule 62-296.320(4)(c) F.A.C.]

3.0 Operation Requirements

3.1 Circumvention: No person shall circumvent any air pollution control device, or allow the emission of air pollutants without the applicable air pollution control device operating properly.
[Rule 62-210.650 F.A.C.]

4.0 Compliance Testing Requirements

4.1 Test Notification: Unless otherwise specified in this permit, the DERM Air Facilities Section shall be notified in writing of expected compliance test dates (when required) at least fifteen (15) days prior to compliance testing. The notification shall include the following information: the date, time, and location of each test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner.
[Rule 62-297.310(7)(a) 9 F.A.C.]

4.2 Testing at Capacity: Compliance testing (when required) shall be conducted with the emission units operating at the permitted capacity (90 to 100% of the maximum permitted operation rate of the emission units). If an emission unit is not tested at permitted capacity, the emission unit shall not be operated above 110% of the test load until a new test showing compliance is conducted. Operation of the emissions unit above 110% of the test load is allowed for no more than 15 days for the purpose of conducting additional compliance testing to regain the authority to operate at the permitted capacity.
[Rule 62-297.310(2) F.A.C.]

4.3 Special Compliance Tests: When the DERM, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard in Rules 62-204 through 62-297 or in a permit issued pursuant to those rules is being violated, it shall require the permittee of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the DERM.
[Rule 62-297.310(7)(b) F.A.C.]

5.0 Reporting and Record Keeping Requirements

5.1 Report Excess Emissions: In case of excess emissions resulting from malfunctions, each permittee shall notify the DERM in accordance with Rule 62-4.130, F.A.C. (condition 5.2 below). A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the DERM.
[Rule 62-210.700(6) F.A.C.]

5.2 Report Plant Operation Problems: If the permittee is temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by hazard of fire, wind or by other cause, the permittee shall immediately notify the DERM. Notification shall include pertinent information as to the cause of the problem, and what steps are being taken to correct the problem and to prevent its recurrence, and where applicable, the owner's intent toward reconstruction of destroyed facilities. Such

notification does not release the permittee from any liability for failure to comply with the FDEP and the DERM rules.
[Rule 62-4.130 F.A.C.]

5.3 Retain Records: All records required by this permit shall be kept by the permittee and made available for the DERM inspection for a minimum of three (3) years from the date of such records.
[Rule 62-4.160(14)(b) F.A.C.]

5.4 Compliance Test Reports: Compliance test reports (when required) shall be submitted to the DERM Air Facilities Section, as soon as practical, but no later than 45 days after the last sampling run of each test is completed.
[Rule 62-297.310(8)(a) &(b) F.A.C.]

Test reports shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the DERM to determine if the test was properly conducted and the test results properly computed. Test reports, other than for an EPA Method 9 test, shall include the following information and other information as necessary to make a complete report required pursuant to F.A.C. Rule 297.310(8)(c):

- The normal type and amount of fuels used and materials processed, and the types and amounts of fuels used and material processed during each test run.
- The means, raw data and computations used to determine the amount of fuels used and materials processed, if necessary to determine compliance with an applicable emission limiting standard.
- The type of air pollution control devices installed on the emissions unit, their general condition, their normal operating parameters (pressure drops, total operating current and GPM scrubber water), and their operating parameters during each test run.
- All measured and calculated data required to be determined by each applicable test procedure for each run.
- The detailed calculations for one run that relate the collected data to the calculated emission rate.
- The applicable emission standard, and the resulting maximum allowable emission rate for the emissions unit, plus the test result in the same form and unit of measure.

5.5 Annual Report Required: On or before March 1 of each calendar year, a completed DEP Form 62-210.900(5), Annual Operating Report (AOR) Form for Air Pollutant Emitting Facility, shall be submitted to the Miami-Dade County DERM, Air Facilities Section. Included with this report shall be any additional reports, if any, required by this permit in Part III -- Emission Unit Specific Conditions.
[Rule 62-210.370(3) F.A.C.]

PART III -- EMISSION UNIT SPECIFIC CONDITIONS

This part of this permit addresses the following emission units:

Emissions Unit Number	Emissions Unit Description
026	Concrete Block Plant with a design capacity of 5,500 blocks per hour (approximately 96 tons per hour of concrete block). The block plant consists of three (3) Aggregate Storage Silos with Weigh Hoppers, and two (2) Cement Storage Silos. Each Cement Storage Silo has 2 Baghouses, a Mixer, and a Weigh Hopper with Baghouse. A total of 6 baghouses are associated with the Concrete Block Plant. See table below for baghouse design specifications.

Concrete Block Plant Baghouse Design Specifications

Source ID	Manufacturer	Model No.	Number of Cartridges	Flow Rate (acfm)	Cloth Area (ft^2)	Air to Cloth Ratio
Cement Silo #1	C & W Mfg.	CP-310 [2 units]	4	1600	304	5.3
Cement Silo #2	C & W Mfg.	CP-310 [2 units]	4	1600	304	5.3
Weigh Hopper #1	C & W Mfg.	CP-100 [1 unit]	1	400	110	4.0
Weigh Hopper #2	C & W Mfg.	CP-100 [1 unit]	1	400	110	4.0

1.0 Essential Potential to Emit (PTE) Parameters

1.1 Hours of Operation: The Concrete Block Plant may not operate in excess of 20 hours/day, 6 days/week for 52 weeks/year resulting in a total of 6,240 hrs/year.
[Rule 62-4.070(3) F.A.C.; Requested by Permittee in Application received July 1, 2002]

1.2 Visible Emissions: Emissions from silos, weigh hoppers (batchers), and other enclosed storage and conveying equipment shall be controlled to the extent necessary to limit visible emissions to 5 percent opacity.
[Rule 62-296.414(1), F.A.C.]

2.0 Testing and Recordkeeping Requirements

2.1 Unconfined Emissions: The permittee shall take reasonable precautions to control unconfined emissions from hoppers, storage and conveying equipment, conveyor drop points, truck loading and unloading, roads, parking areas, stock piles, and yards as required by Rule 62-296.320(4)(c), F.A.C. and Facility-Wide Specific Condition No. 2.4 of this permit. The following shall constitute additional reasonable precautions for the concrete block plant:

- Reduction of stock pile height or installation of wind breaks to mitigate wind entrainment of particulate matter from stock piles.
- Use of spray bar, chute, or partial enclosure to mitigate emissions at the drop point to the truck.

[Rule 62-296.414(2), F.A.C.]

2.2 Test Methods & Procedures: All emissions tests performed shall comply with the following requirements.
(a) The test method for visible emissions shall be EPA Method 9.
(b) Test procedures shall meet all applicable requirements of Chapter 62-297, F.A.C.
(c) Visible emissions tests of silo dust collector exhaust points shall be conducted while loading the silo at a rate that is representative of the normal silo loading rate. The minimum loading rate shall be 25 tons per hour unless such rate is unachievable in practice. If emissions from the weigh hopper

(batcher) operation are also controlled by the silo dust collector, then the batching operation shall be in operation during the visible emissions test. The batching rate during the emissions test shall be representative of the normal batching rate and duration. Each test report shall state the actual silo loading rate during emissions testing and, if applicable, whether or not batching occurred during emissions testing.

(d) If emissions from the weigh hopper (batcher) operation are controlled by a dust collector which is separate from the silo dust collector, visible emissions tests of the weigh hopper (batcher) dust collector exhaust point shall be conducted while batching at a rate that is representative of the normal batching rate and duration. Each test report shall state the actual batching rate during emissions testing.

(e) Each dust collector exhaust point shall be tested for a minimum of 30 minutes or, if the operation is normally completed within less than 30 minutes and does not recur within that time, the test shall last for the length of the loading operation.

[Rule 62-296.414(3), and 62-297.310(4)(a), F.A.C.]

2.3 Annual Testing: Each dust collector exhaust point shall be tested annually for compliance with the visible emission limiting standard of Rule 62-296.414(1), F.A.C.
[Rule 62-296.414(4), F.A.C.]

2.5 Record of Operating Hours: The permittee shall keep a daily log of the number of hours of operation.
[Rule 62-4.070(3) F.A.C.]

Executed in Miami-Dade County, Florida.

DEPARTMENT OF ENVIRONMENTAL
RESOURCES MANAGEMENT

H. Patrick Wong, Chief — Date 9/20/02
Air Quality Management Division

HPW/cj

Copy: Scott Sheplak, Florida Department of Environmental Protection (FDEP), Tallahassee
Tom Tittle, FDEP Air Program, Southeast District Office
Scott Quaas, Tarmac

FILING AND ACKNOWLEDGMENT: FILED, on this date, pursuant to § 120.52(7), F.S., with the designated DERM Clerk, receipt of which is hereby acknowledged.

Clerk — Date 9/20/02

APPENDIX A
GENERAL PERMIT 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, Florida Statutes. The permittee is placed on notice that the DERM 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 or exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the DERM.

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 DERM permit that may be required for other aspects of the total project which are not addressed in the 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 Florida Statutes and DERM rules, unless specifically authorized by an order from the DERM.

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 DERM 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 DERM rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized DERM 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 DERM 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 DERM 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 DERM 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 DERM may be used by the DERM as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or DERM rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extend it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in DERM 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 DERM rules.

11. This permit is transferable only upon DERM 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 DERM.

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

13. The permittee shall comply with the following:

    (a) Upon request, the permittee shall furnish all records and plans required under DERM rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the DERM.

    (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 DERM 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.

14. When requested by the DERM, 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 DERM, such facts or information shall be corrected promptly.

Purpose of Application

Air Operation Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

[ ] Initial Title V air operation permit for an existing facility which is classified as a Title V source.

[ ] Initial Title V air operation permit for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application, would become classified as a Title V source.

Current construction permit number:_____

[X] Title V air operation permit revision to address one or more newly constructed or modified emissions units addressed in this application.

Current construction permit number: **0250020-014-AC**

Operation permit number to be revised: **0250020-011-AV**

[ ] Title V air operation permit revision or administrative correction to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application. (Also check Air Construction Permit Application below.)

Operation permit number to be revised/corrected:_____

[ ] Title V air operation permit revision for reasons other than construction or modification of an emissions unit. Give reason for the revision; e.g., to comply with a new applicable requirement or to request approval of an "Early Reductions" proposal.

Operation permit number to be revised:_____

Reason for revision:_____

Air Construction Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

[ ] Air construction permit to construct or modify one or more emissions units.

[ ] Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.

[ ] Air construction permit for one or more existing, but unpermitted, emissions units.

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official:
   Hardy Johnson, President, Florida Division

2. Owner/Authorized Representative or Responsible Official Mailing Address:
   Organization/Firm: **Tarmac America, LLC**
   Street Address: **455 Fairway Drive**
   City: **Deerfield Beach** State: **FL** Zip Code: **33441**

3. Owner/Authorized Representative or Responsible Official Telephone Numbers:
   Telephone: **(954) 481 - 2800** Fax: **(954) 421 - 0296**

4. Owner/Authorized Representative or Responsible Official Statement:

   I, the undersigned, am the owner or authorized representative(check here [ ], if so) or the responsible official (check here [X], if so) of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.*

Signature _____ Date 4/1/03

* Attach letter of authorization if not currently on file.

Professional Engineer Certification

1. Professional Engineer Name: **David A. Buff**
   Registration Number: **19011**

2. Professional Engineer Mailing Address:
   Organization/Firm: **Golder Associates Inc.***
   Street Address: **6241 NW 23rd Street, Suite 500**
   City: **Gainesville** State: **FL** Zip Code: **32653-1500**

3. Professional Engineer Telephone Numbers:
   Telephone: **(352) 336 - 5600** Fax: **(352) 336 - 6603**

*** Board of Professional Engineers Certificate of Authorization #00001670**

4. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein, that:*

(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and

(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

If the purpose of this application is to obtain a Title V source air operation permit (check here [ ], if so), I further certify that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance schedule is submitted with this application.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [ ], if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [X], if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

David A. Buff — Signature

8/2/03 — Date

(seal)

* Attach any exception to certification statement.

Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type	Processing Fee
026	Concrete Block Plant		

Application Processing Fee

Check one: [ ] Attached - Amount: $_____ [X] Not Applicable

Construction/Modification Information

1. Description of Proposed Project or Alterations:
2. Projected or Actual Date of Commencement of Construction:
3. Projected Date of Completion of Construction:

Application Comment

This application is to incorporate the provisions of permit No. 0250020-014-AC for a new concrete block plant into the current Title V operating permit (0250020-011-AV).

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates: Zone: **17** East (km): **562.8** North (km): **2861.7**			
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): **25 / 52 / 30** Longitude (DD/MM/SS): **80 / 22 / 30**			
3. Governmental Facility Code: **0**	4. Facility Status Code: **A**	5. Facility Major Group SIC Code: **32**	6. Facility SIC(s): **3241, 3271, 3273, 1422, 1442**
7. Facility Comment (limit to 500 characters):			

Facility Contact

1. Name and Title of Facility Contact: **Scott Quaas, Environmental Manager**
2. Facility Contact Mailing Address: Organization/Firm: **Tarmac America, Inc.** Street Address: **455 Fairway Drive** City: **Deerfield Beach** State: **FL** Zip Code: **33441**
3. Facility Contact Telephone Numbers: Telephone: **(954) 425 - 4165** Fax: **(954) 480 - 9352**

Facility Regulatory Classifications

Check all that apply:

1. [ ] Small Business Stationary Source? [ ] Unknown
2. [X] Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)?
3. [ ] Synthetic Minor Source of Pollutants Other than HAPs?
4. [ ] Major Source of Hazardous Air Pollutants (HAPs)?
5. [ ] Synthetic Minor Source of HAPs?
6. [X] One or More Emissions Units Subject to NSPS?
7. [X] One or More Emission Units Subject to NESHAP?
8. [ ] Title V Source by EPA Designation?
9. Facility Regulatory Classifications Comment (limit to 200 characters):

List of Applicable Regulations

62-210.700(1) Excess Emissions	
62-210.700(4) Excess Emissions	
62-210.700(5) Excess Emissions	
62-210.700(6) Excess Emissions	
62-296.320(4) General Visible Emissions Std.	
62-296.320(4)(c) - Unconfined Emissions	
Dade County - See 24-17	
Title V Core List dated 3/1/2002	

Title V Core List Effective: 03/01/02

[**Note:** The Title V Core List is meant to simplify the completion of the "List of Applicable Regulations" for DEP Form No. 62-210.900(1), Application for Air Permit - Long Form. The Title V Core List is a list of rules to which all Title V Sources are presumptively subject. The Title V Core List may be referenced in its entirety, or with specific exceptions. The Department may periodically update the Title V Core List.]

Federal: ***(description)***

40 CFR 61, Subpart M: NESHAP for Asbestos.

40 CFR 82: Protection of Stratospheric Ozone.
40 CFR 82, Subpart B: Servicing of Motor Vehicle Air Conditioners (MVAC).
40 CFR 82, Subpart F: Recycling and Emissions Reduction.

State: (description)

CHAPTER 62-4, F.A.C.: PERMITS, effective 06-01-01

62-4.030, F.A.C.: General Prohibition.
62-4.040, F.A.C.: Exemptions.
62-4.050, F.A.C.: Procedure to Obtain Permits; Application
62-4.060, F.A.C.: Consultation.
62-4.070, F.A.C.: Standards for Issuing or Denying Permits; Issuance; Denial.
62-4.080, F.A.C.: Modification of Permit Conditions.
62-4.090, F.A.C.: Renewals.
62-4.100, F.A.C.: Suspension and Revocation.
62-4.110, F.A.C.: Financial Responsibility.
62-4.120, F.A.C.: Transfer of Permits.
62-4.130, F.A.C.: Plant Operation - Problems.
62-4.150, F.A.C.: Review
62-4.160, F.A.C.: Permit Conditions.
62-4.210, F.A.C.: Construction Permits.
62-4.220, F.A.C.: Operation Permit for New Sources.

CHAPTER 62-210, F.A.C.: STATIONARY SOURCES - GENERAL REQUIREMENTS, effective 06-21-01

62-210.300, F.A.C.: Permits Required.
62-210.300(1), F.A.C.: Air Construction Permits.
62-210.300(2), F.A.C.: Air Operation Permits.
62-210.300(3), F.A.C.: Exemptions.
62-210.300(5), F.A.C.: Notification of Startup.
62-210.300(6), F.A.C.: Emissions Unit Reclassification.
62-210.300(7), F.A.C.: Transfer of Air Permits.

62-210.350, F.A.C.: Public Notice and Comment.
62-210.350(1), F.A.C.: Public Notice of Proposed Agency Action.
62-210.350(2), F.A.C.: Additional Public Notice Requirements for Emissions Units Subject to Prevention of Significant Deterioration or Nonattainment-Area Preconstruction Review.
62-210.350(3), F.A.C.: Additional Public Notice Requirements for Sources Subject to Operation Permits for Title V Sources.

62-210.360, F.A.C.: Administrative Permit Corrections.
62-210.370(3), F.A.C.: Annual Operating Report for Air Pollutant Emitting Facility.
62-210.400, F.A.C.: Emission Estimates.
62-210.650, F.A.C.: Circumvention.
62-210.700, F.A.C.: Excess Emissions

62-210.900, F.A.C.: Forms and Instructions.
62-210.900(1), F.A.C.: Application for Air Permit - Title V Source, Form and Instructions.
62-210.900(5), F.A.C.: Annual Operating Report for Air Pollutant Emitting Facility, Form and Instructions.
62-210.900(7), F.A.C.: Application for Transfer of Air Permit - Title V and Non-Title V Source.

CHAPTER 62-212, F.A.C.: STATIONARY SOURCES- PRECONSTRUCTION REVIEW, effective 08-17-00

CHAPTER 62-213, F.A.C.: OPERATION PERMITS FOR MAJOR SOURCES OF AIR POLLUTION, effective 04-16-01

62-213.205, F.A.C.: Annual Emissions Fee.
62-213.400, F.A.C.: Permits and Permit Revisions Required.
62-213.410, F.A.C.: Changes Without Permit Revision.
62-213.412, F.A.C.: Immediate Implementation Pending Revision Process.
62-213.415, F.A.C.: Trading of Emissions Within a Source.
62-213.420, F.A.C.: Permit Applications.
62-213.430, F.A.C.: Permit Issuance, Renewal, and Revision.
62-213.440, F.A.C.: Permit Content.
62-213.450, F.A.C.: Permit Review by EPA and Affected States
62-213.460, F.A.C.: Permit Shield.

62-213.900, F.A.C.: Forms and Instructions.
62-213.900(1), F.A.C.: Major Air Pollution Source Annual Emissions Fee Form.
62-213.900(7), F.A.C.: Statement of Compliance Form

CHAPTER 62-296, F.A.C.: STATIONARY SOURCES - EMISSION STANDARDS, effective 03-02-99

62-296.320(2), F.A.C.: Objectionable Odor Prohibited.
62-296.320(4)(c), F.A.C.: Unconfined Emissions of Particulate Matter

CHAPTER 62-297, F.A.C.: STATIONARY SOURCES - EMISSIONS MONITORING, effective 03-02-99

62-297.310, F.A.C.: General Test Requirements.
62-297.330, F.A.C.: Applicable Test Procedures.
62-297.340, F.A.C.: Frequency of Compliance Tests.
62-297.345, F.A.C.: Stack Sampling Facilities Provided by the Owner of an Emissions Unit.
62-297.350, F.A.C.: Determination of Process Variables.
62-297.570, F.A.C.: Test Report.
62-297.620, F.A.C.: Exceptions and Approval of Alternate Procedures and Requirements.

Miscellaneous:

CHAPTER 28-106, F.A.C.: Decisions Determining Substantial Interests
CHAPTER 62-110, F.A.C.: Exception to the Uniform Rules of Procedure, effective 07-01-98
CHAPTER 62-256, F.A.C.: Open Burning and Frost Protection Fires, effective 11-30-94
CHAPTER 62-257, F.A.C.: Asbestos Notification and Fee, effective 02-09-99
CHAPTER 62-281, F.A.C.: Motor Vehicle Air Conditioning Refrigerant Recovery and Recycling, effective 09-10-96

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested Emissions Cap lb/hour	3. Requested Emissions Cap tons/year	4. Basis for Emissions Cap	5. Pollutant Comment
PM	A				Particulate Matter-Total
NO_X	A				Nitrogen Oxides
SO_2	A				Sulfur Dioxide
SAM	B				Sulfuric Acid Mist
VOC	A				Volatile Organic Compounds
CO	A				Carbon Monoxides
PM_{10}	A				Particulate Matter-PM_{10}
DIOX	B				Dioxin/Furans

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Area Map Showing Facility Location: [ ] Attached, Document ID: _____ [ ] Not Applicable [X] Waiver Requested
2. Facility Plot Plan: [X] Attached, Document ID: TA-FI-C2 [ ] Not Applicable [ ] Waiver Requested
3. Process Flow Diagram(s): [ ] Attached, Document ID: _____ [ ] Not Applicable [X] Waiver Requested
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
5. Fugitive Emissions Identification: [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
6. Supplemental Information for Construction Permit Application: [ ] Attached, Document ID: _____ [X] Not Applicable
7. Supplemental Requirements Comment:

Additional Supplemental Requirements for Title V Air Operation Permit Applications

8. List of Proposed Insignificant Activities:
   [ ] Attached, Document ID:_____ [X] Not Applicable

9. List of Equipment/Activities Regulated under Title VI:
   [ ] Attached, Document ID:_____
   [ ] Equipment/Activities On site but Not Required to be Individually Listed
   [X] Not Applicable

10. Alternative Methods of Operation:
    [ ] Attached, Document ID:_____ [X] Not Applicable

11. Alternative Modes of Operation (Emissions Trading):
    [ ] Attached, Document ID:_____ [X] Not Applicable

12. Identification of Additional Applicable Requirements:
    [ ] Attached, Document ID:_____ [X] Not Applicable

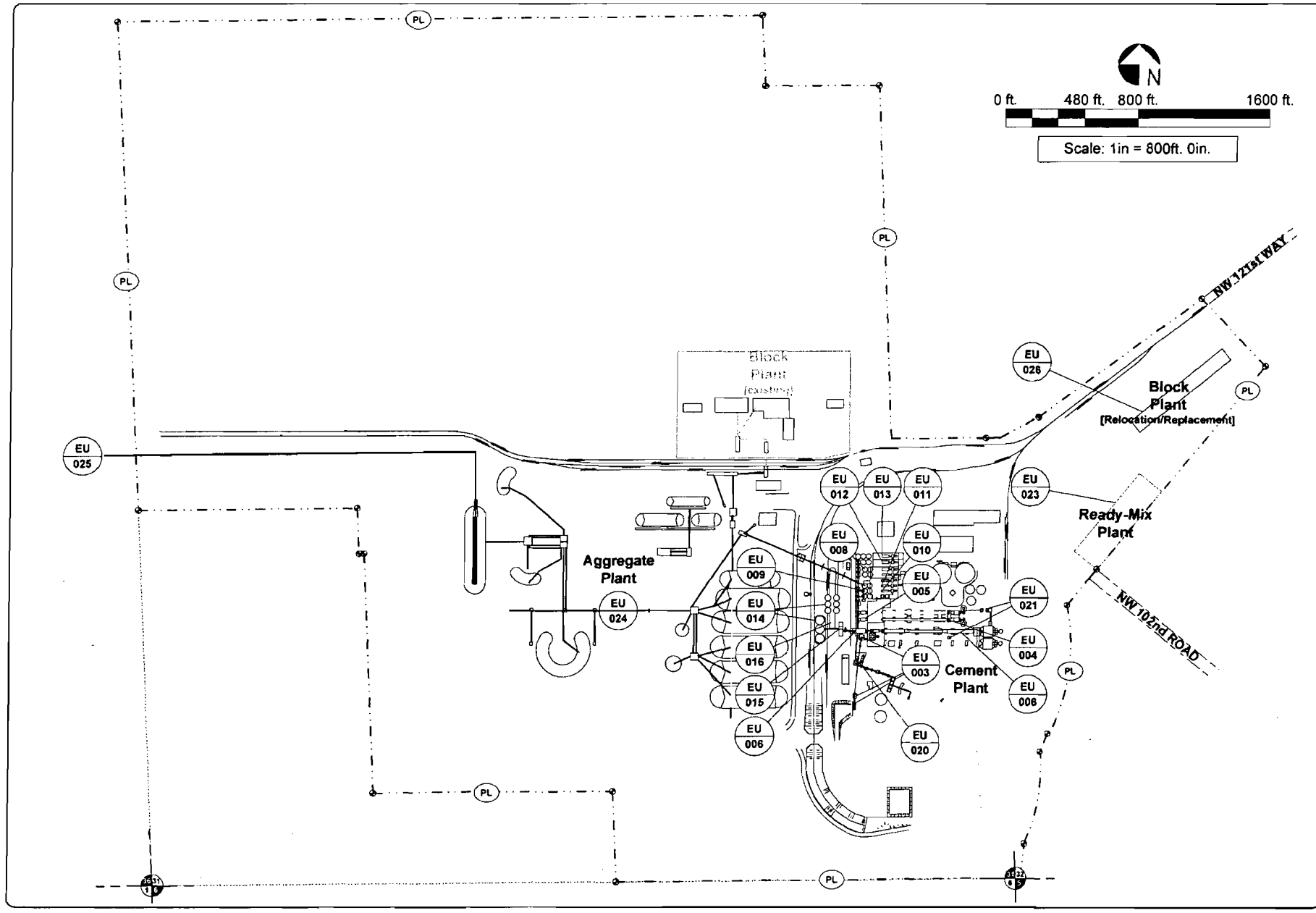
13. Risk Management Plan Verification:
    [ ] Plan previously submitted to Chemical Emergency Preparedness and Prevention Office (CEPPO). Verification of submittal attached (Document ID:_____) or previously submitted to DEP (Date and DEP Office:_____)
    [ ] Plan to be submitted to CEPPO (Date required:_____)
    [X] Not Applicable

14. Compliance Report and Plan:
    [ ] Attached, Document ID:_____ [X] Not Applicable

15. Compliance Certification (Hard-copy Required):
    [ ] Attached, Document ID:_____ [X] Not Applicable

ATTACHMENT TA-FI-C2a

FACILITY PLOT PLAN



DESCRIPTION	TITLE: TARMAC PENNSUCO
ATTACHMENT TA-FI-C2a FACILITY PLOT PLAN	FILENAME: 0237559\4\4.4\4.4.1\TA-FI-C2a.vsd
	LAST REVISION DATE: 6/20/2002

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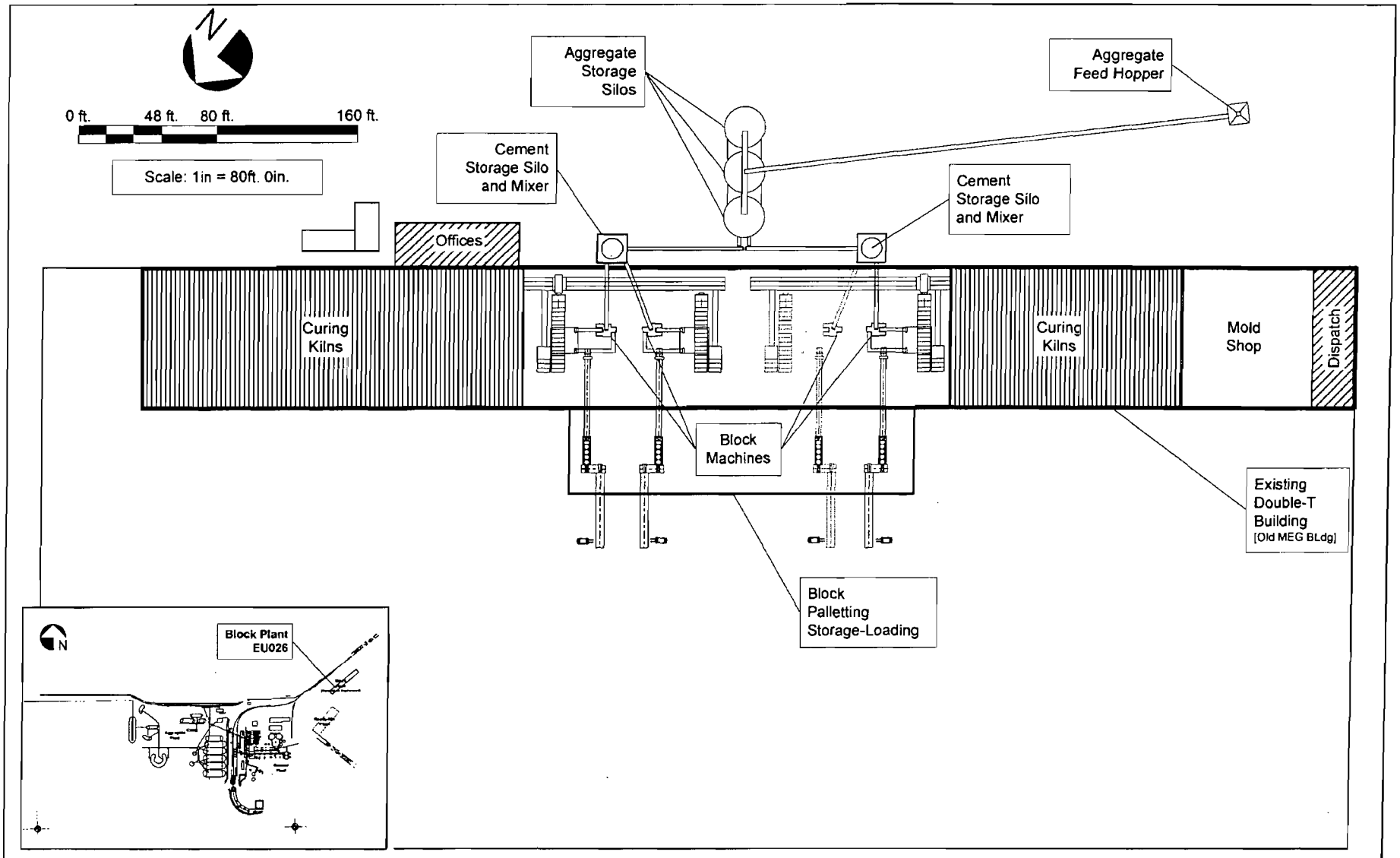
ATTACHMENT TA-FI-C2b

EMISSION UNIT SITE PLAN



Facility Plot Plan [NTS]

Pennsuco Block Plant [EU-026]

DESCRIPTION **ATTACHMENT TA-FI-C2b** **SITE PLAN**	TITLE: **PENNSUCO BLK - RELOCATION/REPLACEMENT** FILENAME: 0237559\4\4.4\4.4.1\TA-FI-C2b.vsd LAST REVISION DATE: 8/1/03	**Tarmac** A Titan America Business

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION
(All Emissions Units)

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Regulated or Unregulated Emissions Unit? (Check one)

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

3. Description of Emissions Unit Addressed in This Section (limit to 60 characters):
Concrete Block Plant

4. Emissions Unit Identification Number:
ID: **026**
[ ] No ID
[ ] ID Unknown

5. Emissions Unit Status Code:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code:	8. Acid Rain Unit?
A		**32**	[X]

9. Emissions Unit Comment: (Limit to 500 Characters)

Concrete block plant producing 5,000 blocks/hour [±96.25 ton/hr concrete block].

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method):

   Baghouses (6)

2. Control Device or Method Code(s): **18**

Emissions Unit Details

1. Package Unit: Manufacturer:	Model Number:	
2. Generator Nameplate Rating:	MW	
3. Incinerator Information:		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:				mmBtu/hr
2. Maximum Incineration Rate:	lb/hr			tons/day
3. Maximum Process or Throughput Rate:				
4. Maximum Production Rate: **5,000 blocks/hour**				
5. Requested Maximum Operating Schedule:				
	20	hours/day	**6**	days/week
	52	weeks/year	**6,240**	hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):				
Production rate equivalent to approximately 96.25 tons/hr concrete block.				

C. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

List of Applicable Regulations

Section 62-296.414, FAC	Batch Plant Visible Emission Standards

D. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **EU026**	2. Emission Point Type Code: **3**	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **Refer to Attachment TA-EU1-J3**		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:		
5. Discharge Type Code: H	6. Stack Height: **50** feet	7. Exit Diameter: **<1** feet
8. Exit Temperature: **77** °F	9. Actual Volumetric Flow Rate: **1,600** acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm	12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone: East (km): North (km):		
14. Emission Point Comment (limit to 200 characters): **Refer to Attachment TA-EU1-J3**		

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Mineral Products: Concrete batching; General; Non-Fugitive**		
2. Source Classification Code (SCC): **3-05-011-01**	3. SCC Units: **cubic yards of concrete**	
4. Maximum Hourly Rate: **±51**	5. Maximum Annual Rate: **320,320**	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters): **Emission unit operates at 5,500 blocks per hour. Cubic yard rates are estimated by process knowledge.**		

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

F. EMISSIONS UNIT POLLUTANTS
(All Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM			NS
PM_{10}			NS

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: **PM**	2. Total Percent Efficiency of Control: **99%**
3. Potential Emissions: **0.43** lb/hour **0.19** tons/year	4. Synthetically Limited? [**X**]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **Bagasse efficiency of 99%** Reference: **AP-40, AP-42, and BEP**	7. Emissions Method Code: **3**
8. Calculation of Emissions (limit to 600 characters): **Refer to Attachment TA-EU1-G8**	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: **PM_{10}**	2. Total Percent Efficiency of Control:
3. Potential Emissions: **0.37** lb/hour **0.16** tons/year	4. Synthetically Limited? [**X**]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: Reference: **AP-42**	7. Emissions Method Code: **3**
8. Calculation of Emissions (limit to 600 characters): **PM_{10} = 85 percent of PM**	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation __1__ of __1__

1. Visible Emissions Subtype: **VE05**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **5** % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Rule 62-296.414, FAC**	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor _____ of _____

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	[ ] Rule [ ] Other
4. Monitor Information: Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: TA-EU1-J1 [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [X] Attached, Document ID: TA-EU1-J3 [ ] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [X] Previously submitted, Date:_____ [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment:

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

12. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [X] Not Applicable

13. Identification of Additional Applicable Requirements
[X] Attached, Document ID: **TA-EU1-J13** [ ] Not Applicable

14. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [X] Not Applicable

15. Acid Rain Part Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[ ] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
Attached, Document ID:_____

[ ] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
Attached, Document ID:_____

[X] Not Applicable

ATTACHMENT TA-EU1-G8

EMISSIONS CALCULATIONS

PRODUCTION RATE: **5,500 blocks/hour** (96.25 ton/hr, ± 51 yd^3/hr)
[maximum] 20 hrs/day, 6 days/wk, 52 wks/yr = **6,240 hrs/yr**

MATERIAL USE: cement = 8.53 tons/hr
[maximum] sand & aggregate = 81.68 tons/hr

UNLOADINGS: cement 53,227 tons/yr / 25 tons/unloading = 2,129 unloadings/yr
[maximum]
assumes ±45 minutes/unloading with an unloading rate of ±30 tons/hour

UNCONTROLLED EMISSIONS: Factors taken from EPA publication "Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Concrete Batching. October 2001

▸ cement silos:	(2@ 30.0 tons/hr) x (0.72 lb/ton mtl)	=	43.20 lb/hr
	(53,227 tons/yr) x (0.72 lb/ton mtl)	=	19.16 ton/yr
▸ weigh hopper/mixer:	(2@ 8.53 tons/hr) x (0.0051 lb/ton mtl)	=	0.09 lb/hr
	(53,227 tons/yr) x (0.0051 lb/ton mtl)	=	0.14 ton/yr

■ **TOTAL UNCONTROLLED EMISSIONS [MAXIMUM]**	=	**43.29 lb/hr**
	=	**19.30 ton/yr**

CONTROLLED EMISSIONS: based on baghouse efficiency of 99% (AP-40, AP-42 & BEP)

▸ cement silos:	(43.20 lb/hr) x (1 - 0.99)	=	0.43 lb/hr
	(19.16 ton/yr) x (1 – 0.99)	=	0.19 ton/yr
▸ weigh hopper/mixer:	(0.09 lb/hr) x (1 - 0.99)	=	<0.01 lb/hr
	(0.14 ton/yr) x (1 – 0.99)	=	<0.01 ton/yr

■ **TOTAL CONTROLLED EMISSIONS [MAXIMUM]**	=	**0.43 lb/hr**
	=	**0.19 ton/yr**

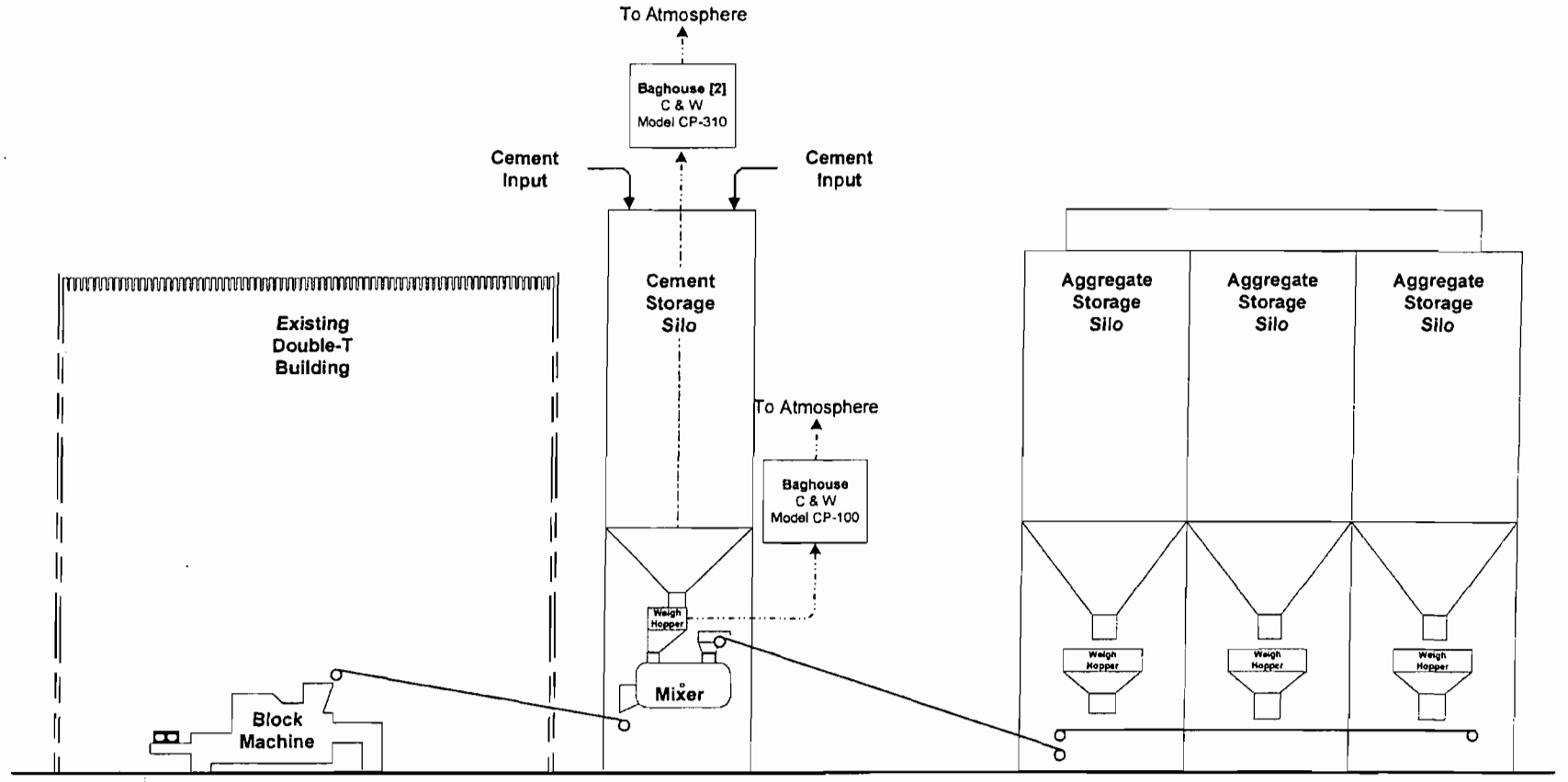
UNCONFINED EMISSIONS:

- aggregates — unconfined particulate emissions from transfer to storage bins will be negligible; materials are kept wet from sprinklers, covered conveyors, or inherent moisture of materials
- vehicle traffic — unconfined particulate emissions from vehicular traffic on unpaved roads or yard areas controlled as necessary by application of water or dust suppressants or other reasonable precautions

DESCRIPTION	TITLE: PENNSUCO BLK	Tarmac A Titan America Business
ATTACHMENT TA-EU1-G8 EMISSION CALCULATIONS	FILENAME: TA-EU1-G8.DOCdoc	
	LAST REVISION DATE: 7/25/2002	

ATTACHMENT TA-EU1-J1

PROCESS FLOW DIAGRAM



Pennsuco Block Plant [EU-026]

DESCRIPTION	TITLE: PENNSUCO BLK - RELOCATION/REPLACEMENT	Tarmac A Titan America Business
ATTACHMENT TA-EU1-J1 **PROCESS FLOW DIAGRAM**	FILENAME: 0237559\4\4.4\4.4.1\TA-EU1-J1.vsd	
	LAST REVISION DATE: **6/20/2002**	

ATTACHMENT TA-EU1-J3

DETAILED DESCRIPTION OF CONTROL EQUIPMENT

ATTACHMENT TA-EU1-J3

DETAILED DESCRIPTION OF CONTROL EQUIPMENT

Source ID	Manufacturer	Model No.	Number of Bags	Flow Rate (acfm)	Cloth Area (ft^2)	Air to Cloth Ratio
Cement Silo No. 1	C&W Mfg.	CP-310 (2 units)	4	1,600	304	5.3
Cement Silo No. 2	C&W Mfg.	CP-310 (2 units)	4	1,600	304	5.3
Weigh Hopper No. 1	C&W Mfg.	CP-100	1	400	110	4.0
Weigh Hopper No. 2	C&W Mfg.	CP-100	1	400	110	4.0

ATTACHMENT TA-EU1-J13

ADDITIONAL APPLICATION REQUIREMENTS