

Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400 Lawton Chiles, Governor Carol M. Browner, Secretary

December 16, 1992

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

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

Dear Mr. Townsend:

Re: Amendment to the Operation Permit, No. AO 13-157297, and the Federal Permit, No. PSD-FL-142, to Conduct Performance Tests for Pollutant Emissions on the Facility's No. 3 Cement Kiln While Utilizing Bottom Ash from the Dade County Resource Recovery Incinerator

The Department has reviewed the request that you provided on September 28, 1992. We have also considered the Department's legal authority to allow Tarmac Florida, Inc. (TFI) to conduct the Paragraph requested performance tests: 403.061(15), Florida Statutes (F.S.) authorizes the Department to consult with any person proposing to construct, install, or otherwise acquire a pollution control device or system concerning the efficacy of such device or system, or the pollution problem which may be related to the source, device, or system. Paragraph 403.061(16), authorizes the Department to encourage voluntary cooperation by persons in order to achieve the purposes of the state environmental act. Paragraph 403.061(18), F.S., authorizes the Department to encourage and conduct studies, investigations, research relating to the causes and control of pollution. Florida Administrative Code (F.A.C.) Rule 17-210.700(5) authorizes the Department to consider variation in industrial equipment and make allowances for excess emissions that provide practical regulatory controls consistent with the public interest.

In accordance with the provisions of Paragraphs 403.061(15), (16), and (18), F.S., F.A.C. Rule 17-210.700(5), and F.A.C. Chapters 17-210 thru 17-297, and 17-4, you are hereby authorized to conduct performance tests for pollutant emissions on TFI's No. 3 cement kiln while at baseline conditions (utilizing coal ash) and while utilizing bottom ash from the Dade County Resource Recovery



Mr. Al Townsend Amendment to AO 13-157297 and PSD-FL-142 December 16, 1992 Page Two

Incinerator (DCRRI). The No. 3 cement kiln's emissions were modeled in the modification evaluation for the No. 2 cement kiln (PSD-FL-142). The source is permitted to utilize ash in the process of making cement.

Screening for actual pollutant emission increases for modification purposes and PSD/NAA (Prevention of Significant Deterioration/ Nonattainment Area) applicability will be in accordance with Title 40 Code of Federal Regulations Part 52.21 (July, 1991 version), Chapter 403, F.S., and F.A.C. Chapters 17-210 thru 17-297, and 17-4. after the performance test results are evaluated by the Department's Bureau of Air Regulation (BAR) and involved parties (i.e., Department's Southeast District, U.S. EPA, National Park Service, and Dade County Environmental Resources Management) and it is determined that actual pollutant emissions did not increase while utilizing the DCRRI bottom ash, then the Department will amend the operation permit, No. AO 13-157297, and the federal permit, No. PSD-FL-142, to authorize continued utilization of the DCRRI bottom However, if there is an actual increase (PSD-FL-142A). pollutant emissions, TFI will not be permitted to utilize the DCRRI bottom ash or any municipal waste incinerator ash without further evaluation by the Department's BAR and involved parties.

The performance tests shall be subject to the following conditions:

- 1. The permittee shall notify, in writing, the Department's Southeast District and Bureau of Air Regulation (BAR) offices at least 15 days prior to commencement of the performance tests. A written report shall be submitted to these offices within 45 days upon completion of the last test run.
- 2. Prior to conducting performance tests for pollutant emissions while utilizing the DCRRI bottom ash in the facility's No. 3 cement kiln (Post-tests), performance tests (Pre-tests/baseline) for pollutant emissions shall be conducted while operating under normal operating conditions with the presently permitted kiln fuels and feed material. The pollutant emissions results of the "Pre-tests" shall be compared to the pollutant emissions results of the "Post-tests" to determine if:
 - a) actual pollutant emissions increased [baseline versus DCRRI bottom ash utilization (Pre vs. Post-tests)] for

Mr. Al Townsend Amendment to AO 13-157297 and PSD-FL-142 December 16, 1992 Page Three

o Mercury

modification purposes and PSD applicability, which, if required, includes the submittal of a permit application and the appropriate processing fee, at a minimum; or,

- b) the operation permit, No. AO 13-157297, and the federal permit, No. PSD-FL-142, can be amended to allow the utilization of the DCRRI bottom ash (PSD-FL-142A) in the facility's No. 3 cement kiln.
- 3. The contents of Mr. David A. Buff's letter received September 28, 1992, are adopted by reference, with the following exceptions:
 - a. From the initial date of utilizing the DCRRI bottom ash in the facility's No. 3 cement kiln, which shall be documented in writing to the Department, the permittee shall be limited to a maximum of 14 days, which is to include 7 days of continuous utilization of DCRRI bottom ash, to conduct performance tests. If additional time is needed, the permittee shall provide the Department with documentation of the progress accomplished to date and shall identify what is left to be done to complete the performance tests.
 - b. A Department Type I audit is required and shall be coordinated with the Department.
 - c. Documentation of the utilization rates of the DCRRI bottom ash in the No. 3 cement kiln shall be required.
 - d. Emissions measurements shall also be required for the following pollutants using the following test methods:

Pollutants/Pollutant Category o PM10/PM2.5 EPA Method 5 or EPA Method 201/201A o Visible Emissions EPA Method 9 EPA Method 22

EPA Method 101/101A

Note: Stack tests for particulate matter and visible emissions are to be run concurrently, weather permitting. EPA Method 22 will apply to fugitive particulate matter emissions from the DCRRI bottom ash pile. Fugitive emissions shall not exceed 10 minutes, total cumulative time observed, in any 1-hour period.

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- e. A separate sampling train shall be used exclusively for mercury emissions in order to avoid heating the filter and vaporizing the mercury prior to analyzing.
- 5. These authorized performance tests shall not result in the release of objectionable odors pursuant to F.A.C. Rule 17-296.320(2).
- 6. Performance testing shall immediately cease upon the occurrence of a valid environmental complaint by a citizen or other party, or a nuisance or danger to public health or welfare. Performance testing shall not resume until appropriate measures to correct the problem have been implemented.
- 7. The performance tests for pollutant emissions shall be conducted under the direct supervision and responsible charge of a professional engineer registered in Florida.
- 8. This Department action is just to authorize the performance tests for pollutant emissions on the facility's No. 3 cement kiln while at baseline conditions (utilizing coal ash) and while utilizing the DCRRI bottom ash.
- 9. Complete documentation (recording) of any utilization of the DCRRI bottom ash in the facility's No. 3 cement kiln shall be required (i.e., testing results; materials utilized, by weight; etc.) and kept on file for a minimum of two years.
- 10. The Department shall be notified in writing on the date of the last test run completion.
- 11. Attachments (See Attachment Section) are incorporated.

The Department has relied on the information referenced in the attachments and conversations with representatives of the TFI, U.S. EPA-Region IV, Department of Interior's National Park Service, Department's Southeast District, and Dade County's Environmental Resources Management, in authorizing this amendment to the operation permit, No. AO 13-157297, and the federal permit, No. PSD-FL-142.

Mr. Al Townsend Amendment to AO 13-157297 and PSD-FL-142 December 16, 1992 Page Five

This letter must be attached to the operation permit, No. AO 13-157297, and the federal permit, No. PSD-FL-142, and shall become a part of the permits.

Sincerely,

Carol M. Browner

Secretary

CB/rbm

Attachments

c: I. Goldman, SED

- P. Wong, DERM
- J. Harper, EPA
- B. Mitchell, NPS
- D. Buff, P.E., KBN
- D. Beason, Esq., DER
- J. Alves, Esq., HBG&S
- S. Kastury, DER

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return this card to you. Attach this form to the fredoes not permit. Write "Return Receipt Requ	2 for additional services. & b. ess on the reverse of this form so the ont of the mailpiece, or on the back is uested" on the mailpiece below the art I provide you the signature of the personal provides you have you the personal provides you have you have you have you have you have you y	k if space 1. Addressee's Address
3. Article Addressed		4a. Article Number P 062 922 023
Mr. Al Townser Director of To Tarmac Florid 455 Fairway D Deerfield Bea	echnical Services a, Inc.	4b. Service Type Registered Insured XXCertified COD Express Mail Return Receipt for Merchandise 7. Date of Delivery
5. Signature (Addresse	e)	Addressee's Address (Only if requested and fee is paid)
6. Signature (Argent)	Lale L	
PS Form 3811, Nover	nber 1990 + U.S. GPO: 1991-287	287-066 DOMESTIC RETURN RECEIPT

b 0PS 455 053



Receipt for Certified Mail
No Insurance Coverage Provided Do not use for International Mail (See Reverse)

(Mr. Al Townsend,	Tarmac Inc				
Suger Pad No Drive						
Ī	Deerfield Beach,	FL 33441				
T	Postage .	\$				
t	Certified Fee					
Ì	Special Delivery Fee					
t	Restricted Delivery Fee					
5	Return Receipt Showing to Whom & Date Delivered					
	Return Receipt Showing to Whom, Date, and Addressee's Address					
3	TOTAL Postage & Fees	\$				
S Form 3000, June 139	Postmark or Date Mailed: 1-14-92 Permit: AO 13-157297 PSD-FL-142					

Attachment Section

- Amendment authorization to operation permit, No. AO 13-157297, and federal permit, No. PSD-FL-142, dated December 18, 1991.
- Test reports received May 6, 1992.
- 3. Ms. Jewell A. Harper's letter received July 8, 1992.
- 4. Mr. H. Patrick Wong's letter received September 16, 1992.
- 5. Mr. David A. Buff's letter with enclosures received September 28, 1992.
- 6. Title 40 Code of Federal Regulations (July, 1991 version).
- 7. Intent to Issue package dated November 5, 1992.
- 8. Final Determination dated December 16, 1992.

Final Determination

The operation permit amendment application package has been reviewed by the Department. Public Notice of the Department's Intent to Issue was published in the MIAMI REVIEW on November 18, 1992. The Intent to Issue was distributed on November 6, 1992, and available for public inspection at the Department's Southeast District office, the Department's Bureau of Air Regulation office, and the Dade County's Department of Environmental Resources Management office.

There were no comments received during the public notice period. Therefore, it is recommended that the operation permit amendment be issued as drafted.



State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee			
To:	Location:		
To:	Location:		
To:	Location:		
From:	Date:		

Interoffice Memorandum

TO: Carol Browner

FROM: Howard L. Rhodes

DATE: January 5, 1993

SUBJ: Approval of an Operation Permit Amendment

AO 13-157297 & PSD-FL-142

Tarmac Florida, Inc.

Attached for your approval and signature is an operation permit and federal permit amendment prepared by the Bureau of Air Regulation for the above referenced company to be allowed 14-days additional time to conduct emissions tests on the facility's No. 3 cement kiln. The tests will be conducted while utilizing bottom ash from the Dade County Resource Recovery Incinerator.

Previous tests were allowed while utilizing both bottom ash and flyash from the same facility, but significant emissions of mercury were detected (were found to be mostly in the flyash by laboratory analysis). Therefore, this test is to verify that the bottom ash contains very little, if any, mercury; and, that it can be utilized as a supplement to the cement production without it being a pollution concern. The No. 3 kiln processes raw materials to make cement. The facility is located in Dade County, Florida.

There were no comments received during the public notice period. I recommend your approval and signature.

HR/BM/rbm

10-19-97 Spohn OScott EDA Time 3:03 WHILE YOU WERE OUT M Scatt Dan Phone 40 4 Area Code PLEASE CALL TELEPHONED WILL CALL AGAIN CALLED TO SEE YOU WANTS TO SEE YOU URGENT RETURNED YOUR CALL Message TARMACproposal on bottom ash-1 Baseline the Silver (vaporine Hu)



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TARMAC FLORIDA, INC.

September 20, 1993

Mr. Willard Hanks
Bureau of Air Regulation
Florida Department of Environmental Protection
Twin Towers Office Building

2600 Blairstone Road Tallahassee, Florida 32399-2400 455 Fairway Drive Hillsboro Executive Center North Deerfield Beach, Florida 33441

Telephone: Deerfield Beach (305) 481-2800

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SEP 23 1993

Division of Air. Resources Management

Re: Tarmac's Request to Modify our Pennsuco Cement Plant Operating Permit

Dear Mr. Hanks:

Per your request, enclosed is a copy of our Air Pollution Operating Permit #AO13-157297 and also a copy of our request of renewal transmittal letter.

Please advise if you have any questions on our modification request to use the Dade County Resource Recovery Ash.

Very truly yours,

Albert W. Townsend

Director of Technical Services

AWT/ct

Enclosures

cc: D. Buff

KBN Engineering, Inc.



Florida Department of Environmental Regulation

Southeast District • 1900 S. Congress Ave., Suite A • West Palm Beach, Florida 33406 • 407-964-9668

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary Scott Benyon, Deputy Assistant Secretary

PERMITTEE: Mr. Scott Quaas Environmental Specialist Tarmac Florida, Inc. P. Ó. Box 2998 Hialeah, FL 33012

I.D. NUMBER: 50/DAD/13/0020 PERMIT/CERTIFICATION NUMBER: AO 13-157297 * DATE OF ISSUE: FEB. 2 1989 EXPIRATION DATE: November 15, 1993 COUNTY:

Dade LATITUDE/LONGITUDE: 25°52'30"N/80°22'30"W
UTM: Zone 17; 562.8 km. E; 2861.7 km. N
PROJECT: Tarmac Florida, Inc.
Portland Cement Manufacturer

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule 17-2, and in conformance with all existing regulations of the Florida Department of Environmental Regulation. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department and read according to the conformation of fallows. ment and made a part hereof and specifically described as follows:

OPERATE: A portland cement manufacturing plant consisting of the following air pollution sources:

Coal handling system with a 13 ton/hr. throughput capacity consisting of:

Dump hopper controlled by a baghouse (G-509) emitting particulate 33 feet above ground level (A.G.L.)

Screening tower controlled by baghouse (G-521) emitting particulate 38 feet

Coal mill feed bin controlled by baghouse (G-527) emitting particulate 120 feet A.G.L.

Bowl mill controlled by baghouses (G-576, G-578, G-580, G-582) emitting particulate through a common stack 117 feet A.G.L. System includes a cyclone used for coal transfer to the pulverized coal bin.

- Kiln 1 with a 40.5 (dry) ton/hr. input capacity controlled by a double chambered electrostatic precipitator (E.S.P.) emitting pollutants 200 ft. A.G.L. **.
- Cooler 1 with 25.0 ton/hr. throughput capacity vented to a multiclone and controlled by a double chambered E.S.P. emitting pollutants 86 feet A.G.L. **.
- Kiln 2 with 40.5 (dry) ton/hr. input capacity controlled by a double chambered E.S.P. emitting pollutants 200 feet A.G.L. **.
- Cooler 2 with a 25.0 ton/hr. throughput capacity vented to a multiclone and controlled by a double chambered E.S.P. emitting pollutants 86 feet A.G.L. **.
- Kiln 3 with a 142 (dry) ton/hr. input capacity vented to a dropout box and controlled by a double chambered E.S.P. emitting pollutants 200 feet A.G.L. ***.
- Cooler 3 with an 87.5 ton/hr. throughput capacity vented to a dropout box and controlled by a 2184 bag (228,000 cfm) baghouse emitting pollutants 100 feet A.G.L. Baghouse also controls emissions from the parallel clinker drag conveyors ***.

Page 1 of 9

PERMITTEE: Mr. Scott Quaas Tarmac Florida, Inc. Hialeah, Florida I.D. NUMBER: ¶ DAD/13/0020
PERMIT/CERTIFICATION NUMBER: AO 13-157297
DATE OF ISSUE: FEB. 2 1989
EXPIRATION DATE: November 15, 1993

• A clinker handling and storage system (for kiln systems 1 and 2) consisting of:

Duplicate bucket elevator/silo distribution drag conveyor operations and clinker silos 1, 2, 4, 5, 11 and 12. Each of the two elevator/conveyor operations and the common silos are controlled by a baghouse (K-147 for one configuration, K-247 for the other) emitting particulate 147 feet A.G.L. Neither elevator/conveyor operation is used simultaneously.

A clinker handling and storage system (for kiln system 3) consisting of:

Duplicate bucket elevator/silo distribution drag conveyor operations and clinker silos 1 & 17. Each of the elevator/conveyor operations and the common silos are controlled by a baghouse (K-347 for one configuration, K-447 for the other) emitting particulate 160 feet A.G.L. Neither elevator/conveyor operation is used simultaneously.

Clinker silos 4 & 18 controlled by baghouse (K-521) emitting particulate 130 feet A.G.L.

Clinker silos 11, 19, & 20 controlled by baghouse (K-522) emitting particulate 130 feet A.G.L

Clinker solos 21, 22, 23, 26, 27, & 28 controlled by baghouse (K-633) emitting particulate 130 feet A.G.L

- Finish mill system 1 with a 25 ton/hr. capacity consisting of two in-line ball mills, clinker/gypsum conveyor, bucket elevator, airslide, separator and transfer line to cement pump (to storage). All of these are controlled by baghouse (F-130) emitting particulate 106 feet A.G.L.
- Finish mill system 2 with a 25 ton/hr. capacity consisting of finish mill 2, clinker/gypsum conveyor, bucket elevator, airslide, separator and transfer line to cement pump (to storage). All of these are controlled by baghouse (F-230) emitting particulate 106 feet A.G.L.
- Finish mill system 3 with an 83.5 ton/hr. capacity consisting of finish mill 3, clinker/gypsum conveyor system controlled by baghouses (F-313 and F-330), a bucket elevator and airslide controlled by a baghouse (F-332), a separator and transfer line to the cement pump (to storage) controlled by a baghouse (F-330). The particulates are emitted 110 feet A.G.L.
- Finish mill system 4 with a capacity of 113 ton/hr. consisting of finish mill 4, a mill sweep controlled by a baghouse (F-430), a clinker/gypsum conveyor system controlled by 4 baghouses (F-603, F-604, F-605) and a general purpose baghouse (F-432), a bucket elevator and airslide controlled by the general purpose baghouse (F-432), a separator and a transfer line to two cement pumps (to storage) controlled by a general purpose baghouse (F-432). The particulates are emitted at an average height of 72 feet A.G.L.
- Cement storage silos 1-9 serving finish mill systems 1, 2, 3 & 4 controlled by baghouses (F-522 for silos 1-6 and F-512 for silos 7-9) emitting particulate 200 feet A.G.L.
- Cement storage silos 10-12 serving finish mill system 4 controlled by baghouses (F-513, F-514 and F-515 respectively) emitting particulate 200 feet A.G.L.
- Bulk cement (truck) loadout unit 3 (cement from silos 10-12) consisting of dual loadout bucket elevators each controlled by a baghouse. (B-372 for one, B-374 for the other) emitting particulate 12 feet A.G.L.; airslide; vibrating screen; truck loadout bin; and telescopic truck loadout spout/hoist. The latter equipment is controlled by baghouse (B-382) emitting particulate 86 feet A.G.L.
- A packhouse with two baggers (for cement silos 3 & 5 for one, 7-9 for the other) controlled by a common baghouse (B-621) emitting particulate 40 feet A.G.L.
- Bulk cement (railcar/truck) loadout unit 1 (uses cement from silos 1-6 and 8) controlled by baghouse (B-110) emitting particulate to exterior of loadout unit 1 building.

BEST AVAILABLE COPY

Quaas orida, Inc. Florida I.D. NUMBER: 5 DAD/13/0020
PERMIT/CERTIFIC ION NUMBER: AO 13-157297
DATE OF ISSUE: FEB. 2 1989
EXPIRATION DATE: November 15, 1993

cement (truck) loadout unit 2 (uses cement from silos 7-9) controlled by use (B-210) emitting particulate to exterior of loadout unit 2 building.

oint Sources

th hopper (transfers cement from silos 10-12 to 6 & 8) controlled by baghouse '3) emitting particulate to enclosed basement of cement silos 10-12.

PANCE WITH: Applications for Renewal of Permit to Operate Air Pollution Sources November 15, 1988 and Applications to Operate Air Pollution Sources dated 1983 addressing: coal handling (revised September 23, 1983), clinker 'storage, finish mill systems 1 and 2, cement storage silos 1-9 and packhouse.

ficates of Completion of Construction dated September 28, 1982 submitted in nction with Application to Construct Air Pollution Sources dated June 14, 1979 lemented by letters dated August 2, 1979 and September 10, 1979) addressing: 1t storage silos 10-12 and bulk cement (truck) loadout units 1, 2, & 3.

cations for Renewal dated May 6 and 31, 1983 (as modified/supplemented mber 23, 1983) based on Application to Operate Air Pollution Sources dated 1, 1971 (as modified by letter dated June 5, 1978) addressing: kiln and r systems 1 and 2.

cations for Renewal dated May 6 and 31, 1983 (as modified/supplemented amber 23, 1983) based on Application to Construct Air Pollution Sources dated amber 26, 1972 (as modified July 18, 1973 and September 23, 1983) and July 2, addressing: kiln and cooler system 3. Certificate of Completion of ruction dated April 29, 1985. Method of Operation as specified by letter dated per 4, 1985; Application to Construct Air Pollution Sources dated February 8, further information supplied by letters dated May 22, 1980 and June 23, 1982, request for extension dated March 30, 1982.

ication for Renewal dated October 3, 1984 based on Applications to Construct Air ation Sources dated July 11, 1972 addressing: finish mill system 3.

ification of Completion of Construction dated December 10, 1982 based on ication to Construct Air Pollution Sources dated June 1, 1979, and letters dated 14, 1979, August 2, 1979, December 14, 1982 and February 23, 1983 addressing: sh mill system 4.

Available Control Technology (BACT) determinations signed October 15, 1979 for it silos 10-12 and bulk cement (truck) loadout unit 3, and April 8, 1980 for handling, and coal final firing (as modified January 21, 1985 and February 12,).

point information provided April 28, 1978 (none are attached).

AT: 11000 Northwest 121 Way, Medley, Dade County, Florida.

A wet process cement manufacturer (SIC # 3241).

TO: General Conditions 1-15 and Specific Conditions 1-13.

permit is a renewal of AO 13-144183 issued December 9, 1985.

Systems 1 & 2 contain a common dust insufflation system which can return ured particulate to the kiln firing hoods. The dust handling equipment for the fflation system includes a surge bin (for each kiln precipitator) and a common bin controlled by baghouse (K-181) emitting particulate 103 feet A.G.L.

System 3 contains a dust insufflation system which can return captured iculate to the kiln firing hood. The dust handling equipment for the fflation system includes a scoop bin and a dust bin for the kiln precipitator) rolled by baghouses (K-383 and K-396 respectively) emitting particulate 100 feet L. Four new gas sampling ports located in the same plane and elevation as ious location, 45° from the original ports were installed.

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PERMITTEE: Mr. Scott Quaas Tarmac Florida, Inc. Hialeah, Florida I.D. NUMBER: 50/DAD/13/ 020
PERMIT/CERTIFICATION NU ER: AO 13-157297
DATE OF ISSUE: FEB. 2 1989
EXPIRATION DATE: November 15, 1993

GENERAL CONDITIONS:

- 1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
- 2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
- 3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor 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 does not constitute a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
- 4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement 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, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
- 6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit, and when required by Department rules.
- 7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
 - Having access to and copying any records that must be kept under the conditions of the permit;
 - Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

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

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

PERMITTEE: Mr. Scott Quaas Tarmac Florida, Inc. Hialeah, Florida

I.D. NUMBER: 50/DAD/15 320 PERMIT/CERTIFICATION NUMBER: AO 13-157297 DATE OF ISSUE: FEB. 2 1989 EXPIRATION DATE: November 15, 1993

GENERAL CONDITIONS:

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

- In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the Department, may be used by the Department as evidence in any enforcement case arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.
- The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided however, the permittee does not waive any other rights granted by Florida Statutes or Department 10. rules.
- This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department.
- This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
- 13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 () Determination of Prevention of Significant Deterioration (PSD)
 () Certification of Compliance with State Water Quality Standards (Section
 - 401, PL 92-500)
 - () Compliance with New Source Performance Standards
- The permittee shall comply with the following monitoring and record keeping requirements:
 - Upon request, the permittee shall furnish all records and plans required under Department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the Department, during the course of any unresolved enforcement action.
 - The permittee shall retain 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), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by Department rule.
 - c. Records of monitoring information shall include:
 - the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;

 - the date(s) analyses were performed;
 the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.
- When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be submitted or corrected promptly.

BEST AVAILABLE COPY

ERMITTEE: Ir. Scott Quaas 'armac Florida, Inc. lialeah, Florida

I.D. NUMBER: 50/DAL 3/0020 PERMIT/CERTIFICATION NUMBER: AO 13-157297 DATE OF ISSUE: FEB. 2 1989 EXPIRATION DATE: November 15, 1993

PECIFIC CONDITIONS:

. Compliance testing shall be conducted for the sources covered by this permit nnually (prior to December 31 of each year) in accordance with the methods pecified below.

Emission limiting standards are as follows:

· Coal handling:

Particulate shall not exceed 0.1 gr/dscf (April 8, 1980 BACT)

Visible emissions shall not exceed 5 percent opacity (April 8, 1980 BACT)

Kilns and Coolers 1 & 2:

Particulate shall not exceed the process weight rate table allowable (F.A.C Rules 17-2.600(7)(a) and 17-2.610(1)(b)). Insuffulated material may be included in kiln process weights.

Visible emissions shall not exceed 20 percent opacity (F.A.C. Rule 17-2.610(2)(a).

• Kiln 3:

Particulate shall not exceed 0.3 lb./Ton of dry kiln feed (F.A.C. Rule 17-2.610(7)(b)1. and 17-2.660(2)(a))(Standards of Performance for New Stationary Sources (NSPS)). Insufflated material may be included in kiln process weights.

Visible emissions shall not equal or exceed 20 percent opacity F.A.C. Rule 17-2.610(2)(a)).

In accordance with the Department BACT Determination Modifications January 21, 1985 for 400 lb SO₂/hr. maximum emission rate, and at operating rates less than maximum, 4.6lb. SO₂/ton of clinker produced.

• Cooler 3:

Particulate shall not exceed 0.11b./Ton of dry kiln feed (F.A.C. Rules 17-2.600(7)(b).2. & F.A.C. Rule 17-2.66092)(a)/NSPS).

Insufflation systems:

Visible emissions shall not equal or exceed 20 percent opacity (F.A.C. Rule 17-2.610(2)(a)).

- Clinker storage (silos 21-23 and 26-28):
- Visible emissions shall not exceed 5 percent opacity (October 15, 1979 BACT)
- Clinker handling/storage (silos 1, 2, 4, 5, 12 and 17-20):
- Visible emissions shall not equal or exceed 20 percent opacity (F.A.C. Rule 17-2.610(2)(a)).
- Finish mill systems 1, 2, & 3:

Particulate shall not exceed the process weight rate table allowable $(F.A.C. \ Rule \ 17-2.610(2)(a))$.

BEST AVAILABLE COPY PERMITTEE:

Mr. Scott Quaas Tarmac Florida, Inc. Hialeah, Florida

I.D. NUMBER: 50 AD/13/0020 PERMIT/CERTIFICA ON NUMBER: DATE OF ISSUE: FEB. 2 1989 AO 13-157297

EXPIRATION DATE: November 15, 1993

SPECIFIC CONDITIONS Cont.:

Finish mill system 4:

Particulate shall not exceed the process weight rate table allowable (F.A.C. Rule 17-2.610(2)(a)).

Visible emissions shall not exceed 5 percent opacity (October 15, 1979 BACT).

Cement storage silos 1-9 and packhouse:

Visible emissions shall not exceed 20 percent opacity (F.A.C. Rule 17-2.610(2)(a)).

Cement storage silos 10-12 and bulk cement loadout unit 3:

Visible emissions shall not exceed 5 percent opacity (October 15, 1979BACT).

Bulk cement loadout units 1 & 2:

Visible emissions shall not equal or exceed 10 percent opacity (F.A.C. Rule 17-2.660(7)(a)/NSPS).

Compliance test methods (continued):

Source/Emission Point	Pollutant	Test Method
Coal handling/(G-509), (G-521), (G-527) & (-576, G-578, G-580 and G-582)	Particulate Visible emissions	EPA Method 5 * EPA Method 9 **
Kiln 1, Cooler 1, Kiln 2, Cooler 2 and Cooler 3	Particulate Visible emissions	EPA Method 5 ** EPA Method 9
Kiln 3	SO ₂ Particulate Visible emissions	EPA Method 6 EPA Method 5 EPA Method 9
<pre>[Insufflation systems] (K-181),</pre>	Visible emissions	EPA Method 9
Clinker handling & Storage system/ (K-633), (K-147), (K-247), (K-347), (K-447), (K-521), & (K-522)	Visible emissions	EPA Method 9
Finish mill systems 1, 2, 3, & 4 (F-130) & (F-230)	Particulate Visible emissions	EPA Method 5 * EPA Method 9
Cement storage silos, packhouse & bulk cement loadout units 1, 2, & 3 (F-511), (F-512) N.) (F-512 S.) (F-513), (F-514), (F-515), (B-621), (B-382, (B-372) & (B-374)	Visible emissions	EPA Method 9

Visible emissions testing demonstrating opacity does not exceed 5 percent opacity (by EPA Method 9) may be submitted in lieu of particulate testing.

he compliance test report shall be submitted to the Department in accordance with lorida Administrative Code (F.A.C.) Rule 17-2.700(7).

Emissions testing is required to be conducted as soon as practical but no later han thirty (30) days after reactivation of any source which did not operate the revious calendar year.

Testing of emissions should be conducted using the fuel and/or process input hich are expected to result in the highest emissions and within ten percent (10%) of

^{**} EPA Method 17 may be used for Kilns & Coolers 1 & 2.

PERMITTEE: Mr. Scott Quaas Tarmac Florida, Inc. Hialeah, Florida

SPECIFIC CONDITIONS Cont .:

the rated capacity of the source. Otherwise the Department may require the test to be repeated or modify the permit to reflect tested rates and/or fuels.

- 6. The Department shall be notified of expected test dates at least fifteen (15) days prior to compliance testing.
- 7. On or before March 1 of each calendar year, a completed DER Form 17-1.202(6), Annual Operations Report Form for Air Emissions Sources shall be submitted to the Department.
- 8. Fuel used in Kilns 1 & 2 shall be limited to Natural gas and No. 6 fuel oil except that operation with other fuels is allowed under a valid construction permit for debugging and testing equipment. Kiln 3 shall be limited to low sulfur (< 2.5%s) coal, natural gas, No. 6 fuel oil and used oil fuel meeting EPA specifications for used oil fuel. For used oil fuel, the amount of used oil fuel generated on site shall be kept in a log on the premises. Samples shall be drawn on a semi-annual basis with the analyses by EPA Recommended Analytical procedures for used oil fuel for lead, arsenic, cadmium, chromium, total halogens and flashpoint. Analyses by ASTM methods, or other methods with prior DER-SEFD approval shall be performed on each sample for sulfur, ash, BTU content and PCB's. The results of the analyses (on the laboratory's letterhead) shall be submitted to the DER-SEFD no later than 30 days after the analyses. The unused portion of the used oil fuel sample shall be retained for six months following the submittal of the anlyses in case further testing is required. All records, reports and data collected shall be maintained as specified in General Condition 14, Part B.
- 9. Copies of all reports, tests, notifications or other submittals required by this permit shall be submitted to both the Department of Environmental Regulation, Southeast District Office, and Dade County Environmental Resources Management.
- 10. Unconfined emissions of particulate shall be controlled by the following means:
 - a. Paved parking and trafficked areas shall be well maintained and kept free of particulate matter build-up.
 - b. Sprinkling when necessary shall be used for unpaved areas and in conjunction with vacuum type sweeper(s) for paved areas. Sweeper(s) shall be maintained and operated such that visible emissions do not exceed 5 percent opacity by EPA Method 9.
 - c. Bulk cement (railcar/truck) loadout unit 1, bulk cement (truck) loadout unit 2 and transfer pump hopper (under silos 10-12), equipped with baghouses (B-110, B-210 and B-323 respectively), exhaust particulate emissions to the interior of enclosed area. Fugitive emissions shall be contained in this manner so as not to exceed 5 percent opacity. This emission limit is specifically required for the transfer pump hopper (B-323) by the April 8, 1980 BACT determination.
- ll. Proof of compliance with the permit shall be the kiln daily operating log, the SO_/NO_ monitor's strip charts and compliance test data. The day, time, type of fuel, fuel feed rate (TPH), sulfur content of the fuel, kiln feed rate (TPH), sulfur content of the kiln feed, oxygen content of the flue gas and the clinker production rate shall be recorded for each kiln. The time period that each kiln operated will also be recorded in the operating log. The logs shall be maintained on the premises for viewing during subsequent compliance inspections and shall be kept for a minimum of two (2) years.

BEST AVAILABLE COPY

PERMITTEÉ: Mr. Scott Quaas Tarmac Florida, Inc. Hialeah, Florida

I.D. NUMBER: 5€ AD/13/0020

AO 13-157297

PERMIT/CERTIFICATION NUMBER: AO 13 DATE OF ISSUE: FEB. 2 1989 EXPIRATION DATE: November 15, 1993

SPECIFIC CONDITIONS Cont.:

12. Permittee will continue the use of the SO₂ and NO_x monitor to measure the concentrations of SO_x and NO_x in the stack for Kiln Number 3. The measured concentrations, as demonstrated by the SO₂/NO_x strip chart recording, shall not be used to determine compliance with applicable emission limitations. However, whenever the strip chart recording indicates a SO₂ concentration greater than 350 ppm or a NO_x concentration than 500 ppm, the permittee shall notify the Department by telephone. The Department may then determine whether a stack test will be necessary to confirm the status of Kiln Number 3 emissions for the parameter exceeding the above stated thresholds. The permittee shall note on the daily log whether or not threshold values here exceeded. If exceeded, the time the Department was notified shall be noted

In addition, the permittee will continue to discharge to waste the dust from ields five and six of the electrostatic precipitator for Kiln Number 3, which epresents the conditions existing during the stack test of April 28, 1987, during thich compliance with the state and federal SO_2 and NO_{X} emission limitations was semonstrated. The permittee shall verify on the Kiln daily log that the dust collected in the hoppers for fields five and six is discharged to the "Dust Waste Bin".

3. If Kiln 1 and Cooler 1 have not been reactivated by April 1, 1992, a new onstruction permit application and review will be required. Also, if Kiln 2 and cooler 2 have not been reactivated by May 1, 1992, a new construction permit pplication and review will be required. Startup of Kilns 1 and 2 prior to the above ates requires advance notification and testing per Specific Condition 4.

Issued this 2th day of Ebrumy

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

Scott Benyon Deputy Assistant Secretary

BEST AVAILABLE COPY

D.E.P.

Lawton Chiles Governor

TEL:407-433-2650 Sep 22 93 11:48 No.007 P.01

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

Virginia B. Wetherell Secretary

DATE 9/22/93 # OF PAGES 8 Including this one TO: Walland Hanks	PERSON SENDING FAX: M. Skinner			
FAX NUMBER: SC 292-6979	TRANSMITTAL ON A HITACHI/HIFAX/35			
AGENCY:	FAX NUMBER: 407/433-2666			
IF ANY OF THE PAGES ARE NOT CLEAR	LY RECEIVED PLEASE CALL:407/433-265			
COMMENTS:				
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455 Fairway Drive • Deerfield Beach, Florida 33441 • 305-481-2800

FACSIMILE

September 2	2, 1993	_	 · .	 •••
TO:	Isadore Goldman			
Facsimile #	407-433-266b	•		
FROM:	Albert W. Townsend Technical Services	·		
Facsimile #	(305)421-0296			
number of p	pages including cover sh	leet <u>2</u>		

Comments:

BEST AVAILABLE COPY

WAIVER OF 90 DAY TIME LIMIT UNDER SECTION 120.60(2), FLORIDA STATUTES

1100111Cation 01 4010-137237	
Applicant's Name:TARMAC_F	LORIDA, INC.
The undersigned has read Se understands the applicant's ri	ction 120.60(2). Florida Statutes. and fully ghts under that section.
the applicant hereby with full rights under Section 120.60(2) 120.60(2), Florida Statutes, t St. Johns Water Management Dis Section 120.60(2), Florida Stat by the applicant, is in (his) (nced license (permit, certification) application, knowledge and understanding of (his) (her) (its). Florida Statutes, waives the right under Section o have the application approved or denied by the trict within the 90 day time period prescribed in tutes. Said waiver is made freely and voluntarily her) (its) self-interest, and without any pressure by the St. Johns Water Management District.
This waiver shall expire on th	e <u>lst</u> day of <u>October</u> , 19 <u>93</u> .
The undersigned is authorized	SIGNATURE Albert W. Townsend-Dir. Technical Services TYPED NAME AND TITLE September 2, 1993 DATE (305)421-2800 TELEPHONE NO.



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400 lawton Chiles, Governor Virginia B. Wetherell, Secretary

May 14, 1993

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. Albert W. Townsend Director of Technical Services Tarmac Florida, Inc. Hillsborough Executive Center North 455 Fairway Drive Deerfield Beach, Florida 33441

Dear Mr. Townsend:

RE: Tarmac Portland Cement Plant - Permit Modification to Utilize Dade County Combustor Ash

The Bureau of Air Regulation received your May 11, 1993, application for the above referenced project. We have determined that the fee submitted is insufficient and are returning your check No. 100015 for \$250 with this letter. Since the request is to modify two sources (kilns 2 and 3), a separate fee for each source will be required before processing can begin.

Please submit the correct fee to the DER Southeast District office in West Palm Beach. We are forwarding your application to that office to begin processing when the fees are received. If you have any questions, please call Patty Adams at (904)488-1344.

Sincerely,

C. H. Faricy, P.E.

Chief

Bureau of Air Regulation

CHF/pa

Enclosure

cc: Isidore Goldman, Southeast District

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on the reverse side?	SENDER: Complete items 1 and/or 2 for additional services. Complete items 3, and 4a & b. Print your name and address on the reverse of this form so that return this card to you. Attach this form to the front of the mailpiece, or on the back it does not permit. Write "Return Receipt Requested" on the mailpiece below the article The Return Receipt will show to whom the article was delivered at delivered.	f space cle number.	I also wish to receive the following services (for an extra fee): 1. Addressee's Address 2. Restricted Delivery Consult postmaster for fee.	eceipt service.
ŏ	3. Article Addressed to:	4a. Arti	cle Number	r
completed	Mr. Albert W. Townsend	P 230	524 301	
귵	Director of Technical Services	4b. Ser	vice Type	<u>.</u>
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Ś	455 Fairway Drive			S
JRESS	Deerfield Beach, FL 33441	☐ Expr	ess Mail Return Receipt for Merchandise	ב ב
ADD		7. Date	of Delivery	00 TO
R	5. Signature (Addressee)		essee's Address (Only if requested	ž
our RETU	6. Signature (Ageyft)	and	fee is paid) i	l hai
ls y	PS Form 3811 , December 1991 ±U.S. GPO: 1992—323	-402 D(OMESTIC RETURN RECEIPT	1

P 230 524 301



Receipt for
Certified Mail
No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

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	Deerfield Beach	, FL 33441
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	Special Delivery Fee	
	Restricted Delivery Fee	
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300, June 1991	Return Receipt Showing to Whom, Date, and Addressee's Address	
,	TOTAL Postage & Fees	\$
300	Postmark or Date Mailed: 5-17-9.3	

PS Form **3800**,



TARMAC FLORIDA, INC.

December 7, 1992

455 Fairway Drive Hillsboro Executive Center North Deerfield Beach, Florida 33441

Telephone: Deerfield Beach (305) 481-2800

RECEIVED

DEC 0 8 1992

Resources Management

Mr. Bruce Mitchell FDER Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, FL 32399-2400

RE:

Request for Authorization to Conduct Pollutant Emissions Performance Tests While Utilizing Bottom Ash from the Dade County Resource Recovery Incinerator in TFI's No. 3 Cement Kiln

Dear Mr. Mitchell:

At the request of Mr. Albert W. Townsend, Director of Technical Services, I have enclosed a copy of our certified "Notice of Intent to Issue" ad from the Miami Review. The ad ran on 11/18/92.

If you have any questions or comments, please feel free to call. Thank you.

Sincerely,

Kathy Richardson

Real Estate Coordinator

Encs:

MIAMI REVIEW

Published Daily except Saturday, Sunday and Legal Holidays

Miami, Dade County, Florida.

STATE OF FLORIDA COUNTY OF DADE:

Before the undersigned authority personally appeared Octelma V. Ferbeyre, who on oath says that she is the Supervisor of Legal Advertising of the Miami Review, a daily (except Saturday, Sunday and Legal Holidays) newspaper, published at Miami in Dade County, Florida; that the attached copy of advertisement, being a Legal Advertisement of Notice in the matter of

STATE OF FLORIDA

NOTICE OF INTENT TO ISSUE

TARMAC FLORIDA, INC.

AMENDMENT TO AO 13-157297 and

PSD-FL-142

..... Court

was published in said newspaper in the issues of

November 18, 1992

Affiant further says that the said Miami Review is a newspaper published at Miami in said Dade County, Florida, and that the said newspaper has heretotore been continuously published in said Dade County, Florida, each day (except Saturday, Sunday and Legal Holidays) and has been entered as second class mail matter at the post office in Miami in said Dade County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant turther says that she has posither paid for promised any person, firm or corporation any discount, relate, commission or retund for the purpose of securing this advertisement for publication in the said newspaper.

Sworn to and sapparting before me this

18thday of Novembe

3A.D. 19. .92

(SEAL)

Octelma V. Ferbeyre personally known the SEAL

OFFICIAL NOTARY SEAL CHERYL H MARMER COMMISSION NO. CC191642 MY COMMISSION EXP. APR. 12,1996

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REQULATION NOTICE OF INTENT TO ISSUE

TARMAC FLORIDA, INC. AMENDMENT TO AO 13-157297 AND PSD-FL-142

The Department of Environmental Regulation (Department) hereby gives notice of its Intent to issue to Tarmac Fiorida, Inc. (TFI) an amendment to the operation permit, No. AO 13-157297, and the federal permit, No. PSD-FL-142, authorizing performance tests for pollutant emissions on the No. 3 cement kiln, as detailed in the application package. The Department is issuing this Intent to Issue for the reasons stated below and in the proposed amendment.

The applicant, TFI, Post Office Box 2998, Hialeah, Florida 33012, submitted a request on November 4, 1991, to the Department's Bureau of Air Regulation (BAR) for authorization to conduct pollutant emissions tests on the facility's No. 3 cement kiln. The performance tests for pollutant emissions will be conducted while at baseline conditions utilizing the standard raw material (coal ash) and while utilizing as a substitute raw material combustor bottom ash from the Dade County Resource Recovery Incinerator (DCRRI). The amount of the DCRRI ash to be utilized is 3,000 tons, which is approximately the amount of ash produced by the DCRRI is 1-week period. The No. 3 cement kiln's emissions were evaluated in the modification of the No. 2 cement kiln (PSD-FL-142). The No. 3 cement kiln is permitted to utilize ash as a raw material in the

process of making cement.

Screening for actual pollutant emission increases for modification purposes and PSD/NAA (Prevention of Significant Deterioration/ Nonattainment Area) applicability will be in accordance with Title 40 Code of Federal Regulations (CFR) Part 52.21 (July, 1991 version), Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4: If, after the performance test results are evaluated by the Department's Bureau of Air Regulation (BAR) and involved parties (i.e., Department's Southeast District, U.S. EPA, National Park Service, and Dade County Environmental Resources Management) and it is determined that actual pollutant emissions did not increase while utilizing the ash, then the Department: will amend the operation permit, No. AO 13-157297, and the federal permit, No. PSD-FL-142, to authorize continued utilization of the ash (PSD-FL-142A). However, if there is an actual emissions increase in pollutant emissions, TFI will not be permitted to utilize the DCRRI ash or any other municipal waste incinerator ash without further evaluation by the Department's BAR and involved parties.

The proposed project will occur at the applicant's facility located at 11000 N.W. 121 Way, Hialeah, Dade County, Florida

The Department has permitting jurisdiction under Chapter 403; F.S., F.A.C. Chapters 17:2 and 17:4, and Title 40 CFR (July) 1991 version) The project is not exempt from permitting procedures. The Department has determined that an amendment is required for the proposed activity.

Any person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, F.S. The petition must contain the information set forth

below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57. F.S.

The Petition shall contain the following information:

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit Amendment File Number and the county in which the project is proposed;
- A statement of how and when each petitioner received notice of the Department's action or proposed action;
- A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action:
- A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action:
 - A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and,
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the request/application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department, each

Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5,207,

FAC

The request/application is available for public inspection during business hours, 8:00 a.m. 10:5:00 p.m.; Monday through Friday, except legal holidays, at: except legal holidays; at
Department of Environmental Regulation Bureau of Air Regulation 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Department of Environmental Regulation
Southeast District Office

Southeast District Office 1900 S. Congress Avenue, Suite A. West Palm Beach, Florida 33406

Dade County Environmental Resources Management 801 S.W. 3rd Avenue

801 S.W. 3rd Avenue Miami, Florida 33130 Any person may send written comments on the proposed action to Mr. Preston Lewis at the Department's Tallahassee address. All comments received within 14 days of the publication of this notice will be considered in the Department's final determination.

92-4-111896MRR



Affiliates of Time Warner Inc.

Miami Review (305) 377-3721

Broward Review. (305) 463-1432 / (305) 945-6577

Palm Beach Review (407) 832-0386 / (305) 421-5900

TARKAC FLORDAY INC 455 FAIRWAY DRIVE DEERFIELD BEACH FL 33442

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TREMIT TO SALES **REVIEW NEWSPAPERS** P.O. BOX 010589

MIAMI, FL 33101-0589 PLEASE RETURN REMITTANCE COPY

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CREDIT DEPT. (305) 347-6618 PAST DUE BALANCES WILL BE CHARGED A 1.5 PER MONTH SERVICE CHARGE (18% PER ANNUM).

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Best Available Copy



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1992 SEP 28 AM 10: 57

September 25, 1992

Mr. Clair Fancy
Division of Air Resources Management
Florida Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Re: Proposed Retest of Incinerator Ash as Raw Material

Tarmac Florida, Inc., Cement Plant

Dade County, Florida

Dear Mr. Fancy:

Mr. Al Townsend of Tarmac and I recently discussed with Mr. Bruce Mitchell of your staff the retesting of Tarmac Kiln #3 using Dade County Resources Recovery Facility (DCRRF) incinerator ash as a substitute raw material. As we presented to Mr. Mitchell, EPA Region IV has reviewed the test results from the trial burn tests of January and February 1992 and concluded that the pollutants particulate matter (PM) and mercury (Hg) resulted in an increase in emissions when utilizing the DCRRF ash.

Tarmac believes the increase in PM emissions as reflected in the tests is not a result of the DCRRF ash; Tarmac now utilizes power plant ash in the raw feed and there should be no difference in PM emissions from the kiln. Instead, the difference in PM emissions is a result of the variability of the process and ESP operation. This is demonstrated in the varying PM emissions reflected in the PM compliance tests conducted over the past 10 years for Kiln #3. As a result, Tarmac wishes to retest the kiln for PM when using DCRRF ash to demonstrate no increase in PM emissions under similar operating conditions.

Tarmac is also concerned about Hg emissions in south Florida. As a result, Tarmac has investigated the situation with Dade County. DCRRF ash consists of two components: about 80 percent is bottom ash and 20 percent is fly ash. Each ash stream was analyzed for Hg content. The bottom ash was found to contain virtually no Hg, whereas the fly ash contained measurable quantities of Hg. This result is consistent with combustion theory, which indicates that all the Hg in the solid waste would be vaporized in the boiler and exit the boiler in the flue gases. Little if any Hg would be retained in the bottom ash. As the flue gas temperature decreases downstream of the boiler to less than about 500°F, Hg begins to condense out onto the fly ash particles. PM control with an ESP, which operates at about 400-450°F, would result in some collection of Hg in the ESP ash.

As a result, Tarmac desires to conduct a second trial burn utilizing only DCRRF bottom ash (no ESP ash included) in order to demonstrate that neither PM or Hg emissions increase when utilizing this ash. The retest protocol (Attachment A) is essentially the same as the initial trial burn, except that only PM and Hg will be tested. A description of the Tarmac cement production process was provided in the original test protocol and, therefore, is not repeated in Attachment A.

1031 1313

6080262851



WEIGHT

10



KBN ENGINEERING AND APPLIED SCIENCES, INC.

1034 N.W. 57th Street Telephone: (904) 331-9000 Gainesville, Florida 32605 FAX: (904) 332-4189

904/488-1344

E R

> DABuff/VJP 12034

AM Prior

Mr. Clair Fancy Division of Air Resources Mgmt Florida Dept of Environmental Reg 2600 Blair Stone Road Tallahassee, FL 32399-2400 Mr. Clair Fancy September 25, 1992 Page 2



In our conversation, Mr. Bruce Mitchell of your staff concurred with this approach. It is understood that this will require a separate amendment to the operating permit and a new public notice. The \$250 application processing fee is enclosed. Thank you for your cooperation in this matter.

Sincerely,

David A. Buff, M.E., P.E.

David a. Buff

Principal Engineer

Enclosures

cc: Al Townsend

Jim Alves

Bruce Mitchell

Tahnum Goldschmid

Charlie Strong

Project File (2)

S. Brooks, SE West, D. Stong, DERM J. Warper, EPA D. Mitchell, NPS

Professional Engineer Certification

Name: David A. Buff

Signature: David a. Buff

Florida P.E. Registration No.: 19011.

Seal:

##

TARMAC FLORIDA, INC.

CHECK ND. - 72806 CHECK DATE - 09/18/92

DETACH BEFORE DEPOSITING



TARMAC FLORIDA, INC.

P.O. BOX 8648, DEERFIELD BEACH, 33443

NATIONSBANK OF TEXAS, N.A. WICHITA FALLS, TEXAS 76301 CHECK NUMBER 072806

88-130 1119

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16059

O9/18/92 \$******250.00

PAY

FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATIONS;

AUTHORIZED SIGNATURES

ATTACHMENT A

TARMAC FLORIDA, INC. ASH RECYCLING RE-TEST BURN PLAN

I. INTRODUCTION

The test burn will use approximately 3,000 tons of bottom ash, which is approximately the amount of bottom ash produced by DCRRF in a 1-week period. This amount of ash will allow the cement plant to operate at full capacity with the DCRRF bottom ash during the test burn. The production time to process the bottom ash through the cement plant is 7 days.

II. TRANSPORTATION AND STORAGE

The bottom ash will be transported by Dade County vehicles or private haulers. The bottom ash will be delivered over a 3-day period. The total round-trip distance is approximately 17 miles. Trucks used to transport the bottom ash will have roll canvas tops to prevent the ash from becoming airborne. The bottom ash delivered by the trucks will be deposited on the ground at Tarmac next to a loading hopper.

III. CEMENT PRODUCTION

Immediately after the bottom ash arrives at the Tarmac plant, it is mixed with limestone. This prevents the ash from caking and solidifying. Front-end loaders will transfer the premixed materials from the ground into an existing hopper. This premix is then transported by way of a belt conveyor to raw material storage silos. The ash is then mixed with additional limestone, which is housed in a separate silo, to produce a raw mix. The limestone, which contains 89 percent calcium carbonate, is mixed with the ash to produce the proper alumina, iron, silica, and calcium carbonate content needed to make the cement.

The limestone/ash premix and the limestone from the silo are fed through weigh-belt conveyors to the grinding mill for slurry production. The raw mix is ground with water to produce a slurry. The slurry is stored and blended in large, steel tanks. Next, it is pumped to the feed end of an inclined, coal-fired, rotary Kiln. The slurry passes through the Kiln, where it is first heated, driving off the moisture, then calcined. The mixture reaches the critical temperature of 2,800°F,

1

and calcium silicates and calcium aluminates form. These are the fundamental compounds required to produce Portland cement clinker.

The hot clinker is cooled to 150°F and conveyed to silos. It is then withdrawn, gypsum is added, and the mix is interground in grinding mills to produce Portland cement. This cement is pneumatically pumped to storage silos. From these silos, it is shipped by truck and rail to customers.

The cement clinkers will contain a total of approximately 3,000 tons of bottom ash during a 7-day period. There will be approximately 13 percent ash, by weight, in the raw mix (slurry); 20 percent ash, by weight, in the clinker; 19 percent ash, by weight, in the cement; and 3.4 percent ash, by weight, in the concrete.

IV. SAMPLING PROTOCOL

Baseline sampling for PM and Hg was conducted at Tarmac on August 28, 1992.

The sampling program for the DCRRF incinerator bottom ash test burn will consist of sampling the Kiln 3 stack for PM and Hg emissions. In addition, a sample of bottom ash will be taken by Dade County personnel immediately before it is transported to Tarmac. This bottom ash will be analyzed for Hg content. The samples will be analyzed by Spectrum Laboratories, Inc., located in Fort Lauderdale, Florida.

Stack testing will start on the eighth day after the DCRRF ash is first introduced into the process and one day after the kiln begins processing new slurry containing the ash to assure that no residue from the previously used coal ash is present. Emissions testing for PM and Hg will consist of three test runs of 2 hours in duration. The test burn sampling plan is summarized in Tables A-1 and A-2. A sampling protocol developed by Air Consulting and Engineering, Inc., is attached as Appendix A.

Table A-1. Test Burn Sampling Plan

I. DCRRF Bottom Ash

A. Metals

Method

7471

II. Kiln 3 Stack

A. Metals

Mercury

Mercury

EPA Method 101A

B. Nonmetals

Particulate Matter

EPA Method 101A

Table A-2. Schedule

- A. Baseline sampling Conducted on August 28, 1992 and witnessed by DER/DERM
- B. Re-Test Burn Sampling
 - Day 1: Bottom ash is sampled by Dade County. DCRRF bottom ash is then transported by truck to Tarmac and is blended with raw feed.
 - Day 2: Same as Day 1.
 - Day 3: Same as Day 1; raw mill grinding has begun.
 - Day 4: Raw mill is operating.
 - Day 5: Raw mill is operating, and use of old and new slurry has begun.
 - Day 6: Old and new slurry is used.
 - Day 7: New slurry is used containing DCRRF bottom ash only.
 - Day 8: Stack testing will begin on this day.
 - Day 9: Same as Day 7; stack testing is continued as necessary.

APPENDIX A

Tarmac K-3 Kiln Tarmac Resource Recovery Ash Project Particulate and Mercury Testing Methodology and Scope of Work

1.0 Testing Overview

The optimum sampling train for performing particulate (PM) and Mercury (Hg) emissions testing simultaneously is the EPA Method 101A train with a slight modification for sample handling as provided in accordance with the EPA Multi-Metal Train which is also used for Hg testing. I have provided copies of both methods for review of interested parties. One will note that use of a heated filter is an option in the Method 101A train. Sampling train and sampling handling procedures are discussed in 3.0.

2.0 Field Personnel

A three member field test team will be utilized. The ground person will recover and collect samples and recharge sampling train components.

3.0 PM/Hg Sampling Train

A schematic of the sampling train is provided. Operation of the train is identical to EPA Method 5. Three 2-hour test runs will be conducted per test series. Additional KMnO₄ impingers and KMnO₄ volumes are added due to the high condensate volume anticipated. At the end of each test run the train components will be lowered to a clean-up trailer for collection. Sample fractions will be collected as follows.

- Glass Bottle save all impinger contents after measuring for condensate gain. Wash filter backhalf and all impinger components except silica gel impinger with KMnO₄ solution.
- 2. Silica Gel
- 3. Save filter in glass petri dish.
- 4. Glass Bottle Rinse probe, nozzle, and front half filter holder with acetone using metallic free brush. Re-rinse with KMnO₄ and place in Container 1.

Particulate analysis will be performed in the Gainesville ACE lab using normal procedures. After particulate analysis, probe wash residue shall be resolubilized with concentrated nitric acid and added to Container 1. Hg samples are now reduced to containers 1 and 3. Analysis now proceeds starting with 7.3.1 of EPA Method 101A. As this method states, samples are eventually reduced to one analysis per run. The total number of samples analyzed for Hg for a three run test series will be 4.

- 1. Run 1
- 2. Run 2
- 3. Run 3
- 4. Blank (consisting of filter, KMnO₄, and HNO₃)



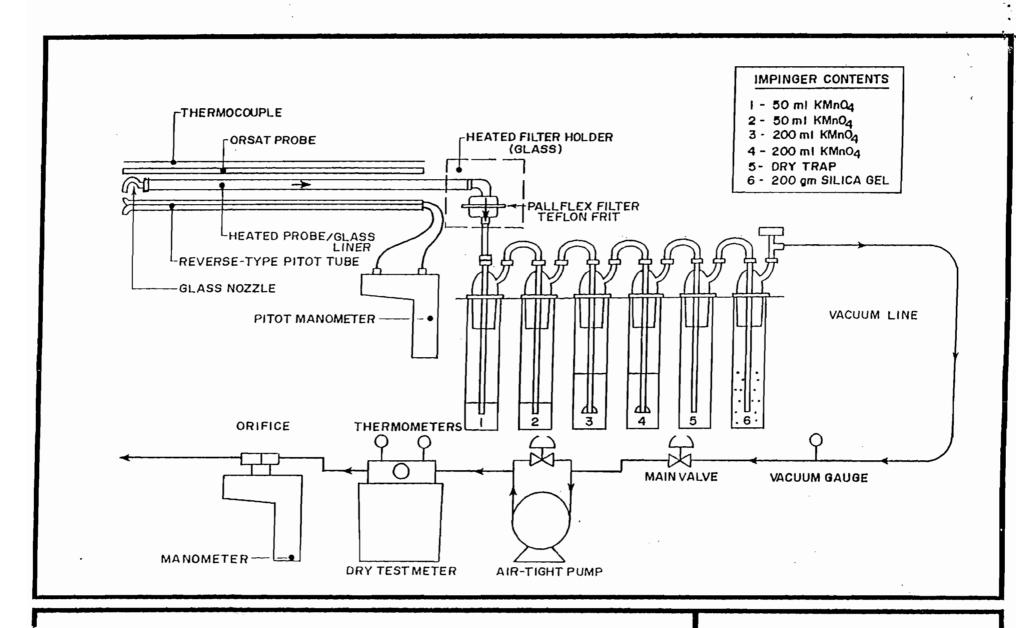


FIGURE I.

MERCURY AND PARTICULATE MATTER SAMPLING TRAIN

AIR CONSULTING and ENGINEERING

METROPOLITAN DADE COUNTY, FLORIDA





ENVIRONMENTAL RESOURCES MANAGEMENT

SUITE 1310 111 N.W. 1st STREET M!AMI, FLORIDA 33128-1971 (305) 375-3376

September RECEIVED

SEP 16 1992

Mr. Bruce Mitchell Bureau of Air Regulation Florida Department of Environmental Regulation 2600 Blair Stone Road Tallahassee, Florida 32301

Division of Air Resources Management

TESTING OF DCRR INCINERATOR ASH AT TARMAC KILN 3. - AP-0368

Dear Mr. Mitchell:

The U.S. EPA review of Tarmac Kiln 3 test reports has determined that feeding DCRRI ash causes significant increase of particulate and mercury emissions. Both bottom ash and fly ash were utilize as feed in the tests.

Tarmac has indicated that they are prepared to retest using only bottom ash from the boilers which will produce lower emissions. DERM has no objections to a baseline retest followed by another trial test using boiler bottom ash as raw feed additive.

Protocol for these tests should be similar to the first test series.

If you desire any additional information, please call DERM Section at (305) 858-0601.

Sincerely,

H. Patrick Wong Chief, Air Section

Environmental Monitoring Division

enderson for

ELA/aas

cc: Albert Townsend, Tarmac, Inc.

METROPOLITAN DADE COUNTY, FLORIDA





ENVIRONMENTAL RESOURCES MANAGEMENT

SUITE 1310

111 N.W. 1st STREET M:AMI, FLORIDA 33128-1971 (305) 375-3376

TECHNICAL SERVICES

September 10, 1992

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Sincerely,

H. Patrick Wong Chief | Air Section

Environmental Monitoring Division

ELA/aas

cc Albert Townsend, Tarmac, Inc.

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COFDER	co. Tarmac
Dept. A	Phone # 425 4/61
Fax#904-922-6979	Fex# 305 421-0276



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E. ATLANTA, GEORGIA 30365

RECEIVED

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JUL - 1 1992

JUL 0 8 1992

Mr. C. H. Fancy, P.E., Chief Bureau of Air Regulation Florida Department of Environmental Regulation Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400 Division of Air Resources Management

RE: Comparative Testing Conducted on the No. 3 Cement Kiln at Tarmac Florida, Inc., Medley, Florida

Dear Mr. Fancy:

As requested in your letter of May 22, 1992, we have reviewed two reports for emission testing conducted at the referenced facility in January and February 1992. The purpose of the testing addressed in the reports was to determine whether feeding ash from the Dade County Resource Recovery Incinerator (DCRRI) to Kiln No. 3 at Tarmac Florida, Incorporated (Tarmac) causes an increase in emissions that would be considered significant as defined in 40 C.F.R. §52.21(b)(23).

Based upon our review of the reports for the baseline and ash testing, we have determined that feeding ash from the DCRRI to Kiln No. 3 caused significant increases in the emission rates of two pollutants (particulate and mercury). Emission rates of these pollutants during both the baseline testing and ash testing and the emission rate increases resulting from the incinerator ash fed to the kiln are summarized below:

· · • E	Emission rat Baseline test		Emission rate increase, ton/year
Particulate	0.89	11.08	44.6
Mercury	0.003	0.0699	0.293

Since feeding incinerator ash to the kiln causes emission rate increases that exceed the significance levels specified for particulate and mercury in 40 C.F.R. §52.21(b)(23) (25 tons/year and 0.1 ton/year, respectively), it will be necessary for Tarmac to apply for and receive a modification to their Prevention of Significant Deterioration permit prior to burning DCRRI ash in Kiln No. 3 on a continuous basis.

If you have any questions regarding the determination provided in this letter, please contact Mr. David McNeal of my staff at 404/347-5014.

Jewell A. Harper, Chief

Air Enforcement Branch/ Air, Pesticides and Toxics

Management Division

cc: Mr. Bruce Mitchell

Bureau of Air Regulation

Florida Department of Environmental

Regulation

Twin Towers Office Building

2600 Blair Stone Road

Tallahassee, Florida 32399-2400



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400 Lawton Chiles, Governor . Carol M. Browner, Secretary

May 22, 1992

Ms. Jewell A. Harper, Chief Air Enforcement Branch U.S. EPA, Region IV 345 Courtland Street, N.E. Atlanta, Georgia 30308

Dear Ms. Harper:

RE: Tarmac Florida Inc.

Emissions Test Report on the Facility's No. 3 Cement Kiln While Utilizing Dade County MSWI Ash

PSD-FL-142A

Enclosed for your review is the above referenced four-volume set report, which is the result of the permit amendment authorization dated December 18, 1991 (attached). Please critique and forward your comments to the Department's Bureau of Air Regulation by June 30, 1992. The Bureau's FAX number is (904)922-6979.

If you have any questions, please call Mr. Bruce Mitchell at (904)488-1344 or write to me at the above address.

Sincerely,

C. H. Fancy, P.E.

Chief

Bureau of Air Regulation

CHF/rbm

Attachment/Enclosures

Recycled Paper
Printed with Soy Based Inks

Attachment



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400 Lawton Chiles, Governor - Carol M. Browner, Secretary

December 18, 1991

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

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

Dear Mr. Townsend:

Re: Amendment to the Operation Permit, No. AO 13-157297, and the Federal Permit, No. PSD-FL-142, to Conduct Performance Tests for Pollutant Emissions on the Facility's No. 3 Cement Kiln While Utilizing Ash from the Dade County Resource Recovery Incinerator

The Department has reviewed the request that you provided on November 4, 1991. We have also considered the Department's legal authority to allow Tarmac Florida, Inc. (TFI) to conduct the requested performance tests. Paragraph 403.061(15), Florida Statutes (F.S.) authorizes the Department to consult with any person proposing to construct, install, or otherwise acquire a pollution control device or system concerning the efficacy of such device or system, or the pollution problem which may be related to the source, device, or system. Paragraph 403.061(16), F.S., authorizes the Department to encourage voluntary cooperation by persons in order to achieve the purposes of the state environmental Paragraph 403.061(18), F.S., act. authorizes the Department to encourage and conduct studies, investigations, research relating to the causes and control of pollution. Florida Administrative Code (F.A.C.) Rule 17-2.250(5) authorizes the Department to consider variation in industrial equipment and make allowances for excess emissions that provide practical regulatory controls consistent with the public interest.

In accordance with the provisions of Paragraphs 403.061(15), (16), and (18), F.S., and F.A.C. Rule 17-2.250(5), you are hereby authorized to conduct performance tests for pollutant emissions on TFI's No. 3 cement kiln while at baseline conditions (utilizing coal ash) and while utilizing bottom and fly ash from the Dade County Resource Recovery Incinerator (DCRRI). The No. 3 cement kiln's emissions were modeled in the modification evaluation for the No. 2 cement kiln (PSD-FL-142). The source is permitted to utilize ash in the process of making cement.

Screening for actual pollutant emission increases for modification purposes and PSD/NAA (Prevention of Significant Deterioration/Nonattainment Area) applicability will be in accordance with Title 40 Code of Federal Regulations Part 52.21 (July, 1990 version), Chapter 403, Florida Statutes, and Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4. If, after the performance test results are evaluated by the Department's Bureau of Air Regulation (BAR) and involved parties (i.e., Department's Southeast District, U.S. EPA, National Park Service, and Dade County Environmental Resources Management) and it is determined that actual pollutant emissions did not increase while utilizing the ash, then the Department will amend the operation permit, No. AO 13-157297, and the federal permit, No. PSD-FL-142, to authorize continued utilization of the ash (PSD-FL-142A). However, if there is an actual emissions increase in pollutant emissions, TFI will not be permitted to utilize the DCRRI ash or any municipal waste incinerator ash without further evaluation by the Department's BAR and involved parties.

The performance tests shall be subject to the following conditions:

- 1. The permittee shall notify, in writing, the Department's Southeast District and Bureau of Air Regulation (BAR) offices at least 15 days prior to commencement of the performance tests. A written report shall be submitted to these offices within 45 days upon completion of the last test run.
- 2. Prior to conducting performance tests for pollutant emissions while utilizing the DCRRI ash facility's No. 3 cement kiln (Post-tests), performance tests (Pre-tests/baseline) for pollutant emissions shall be conducted while operating under normal operating conditions with the presently permitted kiln fuels and feed material. The pollutant emissions results of the "Pre-tests" shall be compared to the pollutant emissions results of the "Post-tests" to determine if:
 - a) actual pollutant emissions increased [(baseline versus DCRRI ash utilization (Pre vs. Post-tests)] for modification purposes and PSD applicability, which, if required, includes the submittal of a permit application and the appropriate processing fee, at a minimum; or,
 - b) the operation permit, No. AO 13-157297, and the federal permit, No. PSD-FL-142, can be amended to allow the utilization of the DCRRI ash (PSD-FL-142A) in the facility's No. 3 cement kiln.

Mr. Al Townsend Page Three

- 3. The contents of Mr. David A. Buff's letter received November 4, 1991, are adopted by reference, with the following exceptions:
 - a. From the initial date of utilizing the DCRRI ash in the facility's No. 3 cement kiln, which shall be documented in writing to the Department, the permittee shall be limited to a maximum of 14 days, which is to include 9 days of continuous utilization of DCRRI ash, to conduct performance tests. If additional time is needed, the permittee shall provide the Department with documentation of the progress accomplished to date and shall identify what is left to be done to complete the performance tests.
 - b. A Department Type I audit is required and shall be coordinated with the Department.
 - c. Documentation of the utilization rates of the DCRRI ash in the No. 3 cement kiln shall be required.
 - d. Emissions measurements shall also be required for the following pollutants using the following test methods:

Pollutants/Pollutant Category

Test Method

o PM10/PM2.5

o Visible Emissions

EPA Method 5 or EPA Method 201/201A EPA Method 9 EPA Method 22

Note: Stack tests for particulate matter and visible emissions are to be run concurrently, weather permitting. EPA Method 22 will apply to fugitive particulate matter emissions from the DCRRI ash pile. Fugitive emissions shall not exceed 10 minutes, total cumulative time observed, in any 1-hour period.

- 5. These authorized performance tests shall not result in the release of objectionable odors pursuant to F.A.C. Rule 17-2.620(2).
- 6. Performance testing shall immediately cease upon the occurrence of a valid environmental complaint by a citizen or other party, or a nuisance or danger to public health or welfare. Performance testing shall not resume until appropriate measures to correct the problem have been implemented.
- 7. The performance tests for pollutant emissions shall be conducted under the direct supervision and responsible charge of a professional engineer registered in Florida.

Mr. Al Townsend Page Four

- 8. This Department action is just to authorize the performance tests for pollutant emissions on the facility's No. 3 cement kiln while at baseline conditions (utilizing coal ash) and while utilizing the DCRRI ash.
- 9. Complete documentation (recording) of any utilization of the DCRRI ash in the facility's No. 3 cement kiln shall be required (i.e., testing results; materials utilized, by weight; etc.) and kept on file for a minimum of two years.
- 10. The Department shall be notified in writing on the date of the last test run completion.
- 11. Attachments (See Attachment Section) are incorporated.

The Department has relied on the information referenced in the attachments and conversations with representatives of the TFI, U.S. EPA-Region IV, Department of Interior's National Park Service, Department's Southeast District, and Dade County's Environmental Resources Management, in authorizing this amendment to the operation permit, No. AC 13-157297, and the federal permit, No. PSD-FL-142.

This letter must be attached to the operation permit, No. AO 13-157297, and the federal permit, No. PSD-FL-142, and shall become a part of the permit.

Sincerely,

STÉVE SMALLWOOD, P.E.

Director

Division of Air Resources
Management

SS/BM/rbm

Attachments

- c: I. Goldman, SE District
 - P. Wong, DERM
 - J. Harper, EPA
 - C. Shaver, NPS
 - D. Buff, P.E., KBN
 - G. Smallridge, Esq., DER
 - J. Alves, Esq., HBG&S
 - J. Reese, DER
 - S. Kastury, DER

Final Determination

The operation permit amendment application package has been reviewed by the Department. Public Notice of the Department's Intent to Issue was published in The Miami Herald on December 3, 1991. The Intent to Issue was distributed on November 21, 1991, edited on November 26, 1991, and available for public inspection at the Department's Southeast District office, the Department's Bureau of Air Regulation office, and Dade County's Department of Environmental Resources Management office.

There were no comments received during the public notice period. Therefore, it is recommended that the operation permit amendment be issued as drafted.

Attachment Section

- Mr. Tanhum Goldshmid's letter with attachment received June 7,
- 2. Ms. Delores Smith's letter received June 10, 1991.
- 3. Mr. Steve Smallwood's letter dated July 1, 1991.
- Mr. John A. Reese's letter dated July 16, 1991. Mr. David A. Buff's letter received October 18, 1991, via FAX. 5.
- Mr. David A. Buff's letter with attachments received November 4, 1991.
- Mr. David A. Buff's letter with enclosures received November 6, 1991, via FAX.
- Mr. David A. Buff's letter with enclosures received November 12, 1991.
- Mr. David A. Buff's Letter of Transmittal with attachment received November 18, 1991.
- 10. Title 40 Code of Federal Regulations (July, 1990 version).
- 11. Intent to Issue package dated November 21, 1991.



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400 Lawton Chiles, Governor Carol M. Browner, Secretary

December 18, 1991

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

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

Dear Mr. Townsend:

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Mr. Al Townsend Page Four

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Sincerely,

STEVE SMALLWOOD, P.E.

Director

Division of Air Resources
Management

SS/BM/rbm

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 - D. Buff, P.E., KBN
 - G. Smallridge, Esq., DER
 - J. Alves, Esq., HBG&S
 - J. Reese, DER
 - S. Kastury, DER

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PS Form **3800**, June 1990

Final Determination

The operation permit amendment application package has been reviewed by the Department. Public Notice of the Department's Intent to Issue was published in The Miami Herald on December 3, 1991. The Intent to Issue was distributed on November 21, 1991, edited on November 26, 1991, and available for public inspection at the Department's Southeast District office, the Department's Bureau of Air Regulation office, and Dade County's Department of Environmental Resources Management office.

There were no comments received during the public notice period. Therefore, it is recommended that the operation permit amendment be issued as drafted.

Attachment Section

- 1. Mr. Tanhum Goldshmid's letter with attachment received June 7, 1991.
- 2. Ms. Delores Smith's letter received June 10, 1991.
- 3. Mr. Steve Smallwood's letter dated July 1, 1991.
- 4. Mr. John A. Reese's letter dated July 16, 1991.
- 5. Mr. David A. Buff's letter received October 18, 1991, via FAX.
- Mr. David A. Buff's letter with attachments received November 4, 1991.
- 7. Mr. David A. Buff's letter with enclosures received November 6, 1991, via FAX.
- 8. Mr. David A. Buff's letter with enclosures received November 12, 1991.
- 9. Mr. David A. Buff's Letter of Transmittal with attachment received November 18, 1991.
- 10. Title 40 Code of Federal Regulations (July, 1990 version).
- 11. Intent to Issue package dated November 21, 1991.

Attachments
Available Upon Request



State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee		
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To:	·	Location:
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Interoffice Memorandum

TO: Steve Smallwood

FROM: Clair Fancy

CM)

DATE: December 18, 1991

SUBJ: Approval of an Operation Permit Amendment

AO 13-157297 (PSD-FL-142)

Tarmac Florida, Inc.

Attached for your approval and signature is an operation permit amendment prepared by the Bureau of Air Regulation for the above referenced company to conduct emissions tests on the facility's No. 3 cement kiln. The tests will be conducted while operating at baseline conditions utilizing the standard raw materials (coal ash) and while utilizing as a substitute raw material combustor ash from the Dade County Resource Recovery Incinerator. The facility is located in Hialeah, Dade County, Florida. There were no comments received during the public notice period.

I recommend your approval and signature.

CF/BM/rbm



TARMAC FLORIDA, INC.

December 16, 1991

Mr. Bruce Mitchell Florida Department of Environmental Regulation Division of Air 2600 Balirstone Street Tallahassee, FL 32399-2400

Dear Bruce;

Per my fax memo this morning, I am enclosing the hard copy of the "Intent to Issue" notice published in the Miami Herald on December 3, 1991.

Please call if there are any questions. Thank you.

Very truly yours,

Albert W. Townsend

Director of Technical Services

AWT/kr

Encs:

BEST AVAILABLE COPY

The Miami Herald

PUBLISHED DAILY MIAMI — DADE — FLORIDA

STATE OF FLORIDA COUNTY OF DADE:

Before the undersigned authority personally appeared

ANN MARTULA

who on oath says that he/she is

CUSTODIAN OF RECORDS

of The Miami Herald, a daily newspaper published at Miami in Dade County, Florida; that the attached copy of advertisement was published in said newspaper in the issues of

DECEMBER 3, 1991

Affiant further says that the said The Miami Herald is a newspaper published at Miami, in the said Dade County, Florida and that the said newspaper has heretofore been continuously published in said Dade County, Florida, each day and has been entered as second class mail matter at the post office in Miami, in said Dade County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that he has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

Maddeller

Sworn to and subscribed before me this.....3xd...

day of December A.D. 1991

My commission expires

HOTARY PUBLIC STATE OF FLORIDA MY COMMISSION EXP. NAR. 18, 1935 BONDED THRU GENERAL THS. UND.

December 16, 1991

TARMAC FLORIDA, INC.
Technical Services Group 455 Fairway Drive

Deerfield Beach, Florida 33441

Telaphone: (305)497-2860

Facsimile: (205)421-0290

PROM:

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10:

12.00

BRUCE MITCHELL

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Best Available Copy



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400 Lawton Chiles, Governor Carol M. Browner, Secretary

FAX TRANSMITTAL SHEET

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DEPARTMENT: FOER / DARM / BAR
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Florida Department of Environmental Regulation

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

Lawton Chiles, Governor, Carol M. Browner, Secretary

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Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400 Lawton Chiles, Governor Carol M. Browner, Secretary

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DATE: 11-26-91
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Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400 Lawton Chiles, Governor Carol M. Browner, Secretary

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Florida Department of Environmental Regulation

Twin Towers Office Bldg. ● 2600 Blair Stone Road ● Tallahassee, Florida 32399-2400 Lawton Chiles, Governor Carol M. Browner, Secretary

November 26, 1991

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

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

Dear Mr. Townsend:

Re: Request for "Intent to Issue" Edit Associated with the Proposal to Conduct Pollutant Emissions Performance Tests While Utilizing Combustor Ash from the Dade County Resource Recovery Incinerator in TFI's No. 3 Cement Kiln

Attached is one copy of the "Intent to Issue" referenced above, which has been edited in accordance with Mr. James S. Alves's request received on November 25, 1991. Please replace the original "Intent to Issue" with this one.

If there are any questions, please call Mr. Bruce Mitchell at (904)488-1344 or write to me at the above address.

Sincerely,

C. H. Fancy, P.E.

Chief

Bureau of Air Regulation

CHF/BM/rbm

Attachments

c: I. Goldman, SE District

P. Wong, DERM

D. Buff, P.E., KBN

C. Shaver, NPS

J. Harper, EPA

G. Smallridge, Esq., DER

J. Alves, Esq., HBG&S

J. Reese, DER

S. Kastury, DER



Complete items 3, and 4a & b. Print your name and address on the reverse of this form so that we can return this card to you. Attach this form to the front of the mailpiece, or on the back if space does not permit. Write "Return Receipt Requested" on the mailpiece next to the article number. Atticle Addressed to: Mr. Al Townsend Director of Technical Services Tarmac Florida, Inc. 455 Fairway Drive Deerfield Beach, FL 33441 Pillowing services (for an extra fee): 1. □ Addressee's Address 2. □ Restricted Delivery Consult postmaster for fee. 4a. Article Number 3 Service Type □ Registered □ Insured □ COD □ Express Mail □ Return Receipt for Merchandise 7. Date of Delivery	SENDER:	· · · · · · · · · · · · · · · · · · ·
• Print your name and address on the reverse of this form so that we can return this card to you. • Attach this form to the front of the mailpiece, or on the back if space does not permit. • Write "Return Receipt Requested" on the mailpiece next to the article number. 3. Article Addressed to: Mr. Al Townsend Director of Technical Services Tarmac Florida, Inc. 455 Fairway Drive Deerfield Beach, FL 33441 5. Signature (Addressee) 6. Signature (Addressee) 8. Addressee's Address (Only if requested and fee is paid)	 Complete items 1 and/or 2 for additional services. 	I also wish to receive the
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Attachments

State of Florida Department of Environmental Regulation Notice of Intent to Issue

The Department of Environmental Regulation (Department) hereby gives notice of its intent to issue to Tarmac Florida, Inc. (TFI) an amendment to the operation permit, No. AO 13-157297, and the federal permit, No. PSD-FL-142, authorizing performance tests for pollutant emissions on the No. 3 cement kiln, as detailed in the application package. The Department is issuing this Intent to Issue for the reasons stated below and in the proposed amendment.

The applicant, TFI, Post Office Box 2998, Hialeah, Florida submitted a request on November 4, 1991, to the Department's (BAR) Bureau of Air Regulation for authorization to conduct emissions tests on the facility's No. 3 cement kiln. pollutant performance tests for pollutant emissions will be conducted while at baseline conditions utilizing the standard raw material (coal ash) while utilizing as a substitute raw material combustor ash from and Dade County Resource Recovery Incinerator (DCRRI). The amount the the DCRRI ash to be utilized is 3,000 tons, which approximately the amount of ash produced by the DCRRI in a 1-week The No. 3 cement kiln's emissions were evaluated in modification of the No. 2 cement kiln (PSD-FL-142). The No. 3 cement kiln is permitted to utilize ash as a raw material in the process of making cement.

pollutant emission Screening for actual increases purposes and PSD/NAA (Prevention of Significant modification applicability will Deterioration/Nonattainment Area) be accordance with Title 40 Code of Federal Regulations (CFR) 52.21 (July, 1990 version), Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4. If, after the performance test results are evaluated by the Department's Bureau of Air Regulation (BAR) and involved parties (i.e., Department's Southeast District, U.S. EPA, National Park Service, and Dade County Environmental Resources Management) and it is determined that actual pollutant emissions did not increase while utilizing the ash, then the Department will amend the operation permit, No. AO 13-157297, and the federal permit, No. PSD-FL-142, to authorize continued utilization of the ash (PSD-FL-142A). However, if there is an actual emissions increase in pollutant emissions, TFI will not be permitted to utilize the DCRRI ash or any other municipal waste incinerator ash without further evaluation by the Department's BAR and involved parties.

The proposed project will occur at the applicant's facility located at 11000 N.W. 121 Way, Hialeah, Dade County, Florida.

The Department has permitting jurisdiction under Chapter 403, F.S., F.A.C. Chapters 17-2 and 17-4, and Title 40 CFR (July, 1990 version). The project is not exempt from permitting procedures. The Department has determined that an amendment is required for the proposed activity.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any person may have to request an administrative such determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information:

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit Amendment File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and,
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.
- If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the request/application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department.

Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

The request/application is available for public inspection during business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Department of Environmental Regulation Bureau of Air Regulation 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Department of Environmental Regulation Southeast District Office 1900 S. Congress Avenue, Suite A West Palm Beach, Florida 33406

Dade County Environmental Resources Management 801 S.W. 3rd Avenue Miami, Florida 33130

Any person may send written comments on the proposed action to Mr. Barry Andrews at the Department's Tallahassee address. All comments received within 14 days of the publication of this notice will be considered in the Department's final determination.

HOPPING BOYD GREEN & SAMS

CARLOS ALVAREZ JAMES S. ALVES BRIAN H. BIBEAU KATHLEEN BLIZZARD ELIZABETH C. BOWMAN WILLIAM L. BOYD, IV RICHARD S. BRIGHTMAN PETER C. CUNNINGHAM THOMAS M. DEROSE WILLIAM H. GREEN WADE L. HOPPING FRANK E. MATTHEWS RICHARD D. MELSON WILLIAM D. PRESTON CAROLYN S. RAEPPLE

GARY P. SAMS ROBERT P. SMITH CHERYL G. STUART ATTORNEYS AND COUNSELORS 123 SOUTH CALHOUN STREET POST OFFICE BOX 6526

TALLAHASSEE, FLORIDA 32314

ASSEE, FL(904) 222-7500
FAX (904) 224-8551 RECE/VE NOV 25 1991 November 25, 1991 Division of Air Resources Managenient

KRISTIN C. RUBIN OF COUNSEL W. ROBERT FOKES

CHARLES A. CULP

JAMES C. GOODLETT

LAURA BOYD PEARCE

GARY V. PERKO MICHAEL P. PETROVICH

DAVID L. POWELL DOUGLAS S. ROBERTS

JULIE B. ROME

ANGELA R. MORRISON MARIBEL N. NICHOLSON

RICHARD W. MOORE

BY HAND-DELIVERY

Mr. Clair H. Fancy, P.E. Chief, Bureau of Air Regulation Department of Environmental Regulation Twin Towers Office Building 2600 Blair Stone Road, Room 306F Tallahassee, Florida 32399-2400

Tarmac Florida, Inc.

Dear Clair:

Tarmac Florida, Inc. sincerely appreciates the Department's expeditious handling of its application to conduct performance tests while utilizing incinerator ash as a substitute raw material in the No. 3 cement kiln at its facility in Dade County. We particularly appreciate Bruce Mitchell's willingness to put this matter on "the front burner" despite his heavy workload.

I called you -- Bruce is out of the office -- this morning to determine whether the Department would feel comfortable with a few minor changes to the "Notice" appended to the Intent To Issue the amendment to Tarmac's air permits. More specifically, Tarmac would prefer to see the second paragraph of that Notice (copy attached) read as follows as shown in a strike-through/underscore format:

> applicant, TFI, Post Office Box 2998, Hialeah, Florida 33012, submitted a request on November 4, 1991, to the Department's Bureau of Air Regulation (BAR) for authorization to conduct pollutant emissions tests on facility's No. 3 cement kiln. The performance for pollutant emissions will conducted while baseline at conditions futilizing the standard raw material (coal ash) and while utilizing as a substitute raw material combustor ash bottom and fly ash from

Mr. Clair H. Fancy, P.E. November 25, 1991 Page 2

the Dade County Resource Recovery Incinerator (DCRRI). The amount of the DCRRI ash to be utilized is 3,000 tons, which is approximately the amount of the ash produced by the DCRRI in a 1-week period. The No. 3 cement kiln's emissions were evaluated in the modification of the No. 2 cement kiln (PSD-FL-142). The No. 3 cement kiln is permitted to utilize ash as a raw material in the process of making cement.

These minor changes would verify that Tarmac utilizes ash as a raw material in its manufacturing operations, and would avoid any potential misunderstanding to the effect that the cement kiln constitutes a disposal facility.

Clair, if at all possible I would greatly appreciate hearing from you on this today (hopefully confirming that these changes are acceptable), as Tarmac needs to make arrangements for publication as soon as possible.

Thank you.

Sincerely,

James S. Alves

/kkm Attachment

cc: Bruce Mitchell

State of Florida Department of Environmental Regulation Notice of Intent to Issue

The Department of Environmental Regulation (Department) hereby gives notice of its intent to issue to Tarmac Florida, Inc. (TFI) an amendment to the operation permit, No. AO 13-157297, and the federal permit, No. PSD-FL-142, authorizing performance tests for pollutant emissions on the No. 3 cement kiln, as detailed in the application package. The Department is issuing this Intent to Issue for the reasons stated below and in the proposed amendment.

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Screening for actual pollutant emission increases for modification purposes and PSD/NAA (Prevention of Significant Area) applicability will be Deterioration/Nonattainment accordance with Title 40 Code of Federal Regulations (CFR) Part 52.21 (July, 1990 version), Chapter 403, Florida Statutes (F.S.), Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4. after the performance test results are evaluated by the Department's Bureau of Air Regulation (BAR) and involved parties (i.e., Department's Southeast District, U.S. EPA, National Park Service, and Dade County Environmental Resources Management) and it is determined that actual pollutant emissions did not increase while utilizing the ash, then the Department will amend the operation permit, No. AO 13-157297, and the federal permit, No. PSD-FL-142, to authorize continued utilization of the ash (PSD-FL-142A). However, if there is an actual emissions increase in pollutant emissions, TFI will not be permitted to utilize the DCRRI ash or any other municipal waste incinerator ash without further evaluation by the Department's BAR and involved parties.

The proposed project will occur at the applicant's facility located at 11000 N.W. 121 Way, Hialeah, Dade County, Florida.

The Department has permitting jurisdiction under Chapter 403, F.S., F.A.C. Chapters 17-2 and 17-4, and Title 40 CFR (July, 1990 version). The project is not exempt from permitting procedures. The Department has determined that an amendment is required for the proposed activity.

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The Petition shall contain the following information:

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

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the request/application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department.

Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

The request/application is available for public inspection during business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Department of Environmental Regulation Bureau of Air Regulation 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Department of Environmental Regulation Southeast District Office 1900 S. Congress Avenue, Suite A West Palm Beach, Florida 33406

Dade County Environmental Resources Management 801 S.W. 3rd Avenue Miami, Florida 33130

Any person may send written comments on the proposed action to Mr. Barry Andrews at the Department's Tallahassee address. All comments received within 14 days of the publication of this notice will be considered in the Department's final determination.

HOPPING BOYD GREEN & SAMS

ATTORNEYS AND COUNSELORS

123 SOUTH CALHOUN STREET

POST OFFICE BOX 6526

TALLAHASSEE, FLORIDA 32314

November 25, 1991 November 25, 1991

Division of Air Resources Managerient

CHARLES A. CULP JAMES C. GOODLETT RICHARD W. MOORE ANGELA R. MORRISON ASSEE, FLORIZ

(904) 222-7500

FAX (904) 224-8551

ACTION OF THE PROOF THE P MARIBEL N. NICHOLSON LAURA BOYD PEARCE MICHAEL P. PETROVICH DOUGLAS 5. ROBERTS

W. ROBERT FOKES

BY HAND-DELIVERY

CARLOS, ALVAREZ

JAMES S. ALVES

BRIAN H. BIBEAU KATHLEEN BLIZZARD

WILLIAM L. BOYD, IV

THOMAS M. DEROSE WILLIAM H. GREEN

WADE L. HOPPING FRANK E. MATTHEWS RICHARD D. MELSON WILLIAM D. PRESTON CAROLYN S. RAEPPLE

GARY P. SAMS ROBERT P. SMITH

CHERYL G. STUART

ELIZABETH C. BOWMAN

RICHARD S. BRIGHTMAN PETER C. CUNNINGHAM

Mr. Clair H. Fancy, P.E. Chief, Bureau of Air Regulation Department of Environmental Regulation Twin Towers Office Building 2600 Blair Stone Road, Room 306F Tallahassee, Florida 32399-2400

> Tarmac Florida, Inc. Re:

Dear Clair:

Tarmac Florida, Inc. sincerely appreciates the Department's expeditious handling of its application to conduct performance tests while utilizing incinerator ash as a substitute raw material in the No. 3 cement kiln at its facility in Dade County. We particularly appreciate Bruce Mitchell's willingness to put this matter on "the front burner" despite his heavy workload.

I called you -- Bruce is out of the office -- this morning to determine whether the Department would feel comfortable with a few minor changes to the "Notice" appended to the Intent To Issue the amendment to Tarmac's air permits. More specifically, Tarmac would prefer to see the second paragraph of that Notice (copy attached) read as follows as shown in a strike-through/underscore format:

> applicant, TFI, Post Office Box 2998, Hialeah, Florida 33012, submitted a request on November 4, 1991, to the Department's Bureau of Air Regulation (BAR) for authorization to conduct pollutant emissions tests on the facility's No. 3 cement kiln. The performance for pollutant emissions will while conducted baseline conditions futilizing the standard raw material (coal ash) and while utilizing as a substitute raw material combustor ash bottom and fly ash from

Mr. Clair H. Fancy, P.E. November 25, 1991
Page 2

the Dade County Resource Recovery Incinerator (DCRRI). The amount of the DCRRI ash to be utilized is 3,000 tons, which is approximately the amount of the ash produced by the DCRRI in a 1-week period. The No. 3 cement kiln's emissions were evaluated in the modification of the No. 2 cement kiln (PSD-FL-142). The No. 3 cement kiln is permitted to utilize ash as a raw material in the process of making cement.

These minor changes would verify that Tarmac utilizes ash as a raw material in its manufacturing operations, and would avoid any potential misunderstanding to the effect that the cement kiln constitutes a disposal facility.

Clair, if at all possible I would greatly appreciate hearing from you on this today (hopefully confirming that these changes are acceptable), as Tarmac needs to make arrangements for publication as soon as possible.

Thank you.

Sincerely,

James S. Alves

/kkm Attachment

cc: Bruce Mitchell

State of Florida Department of Environmental Regulation Notice of Intent to Issue

The Department of Environmental Regulation (Department) hereby gives notice of its intent to issue to Tarmac Florida, Inc. (TFI) an amendment to the operation permit, No. AO 13-157297, and the federal permit, No. PSD-FL-142, authorizing performance tests for pollutant emissions on the No. 3 cement kiln, as detailed in the application package. The Department is issuing this Intent to Issue for the reasons stated below and in the proposed amendment.

The applicant, TFI, Post Office Box 2998, Hialeah, Florida 33012, submitted a request on November 4, 1991, to the Department's of Air Regulation (BAR) for authorization to conduct Bureau pollutant emissions tests on the facility's No. 3 cement kiln. performance tests for pollutant emissions will be conducted while at baseline conditions (utilizing coal ash) and while utilizing bottom and fly ash from the Dade County Resource Recovery Incinerator The amount of the DCRRI ash to be utilized is 3,000 tons, (DCRRI). which is approximately the amount of ash produced by the DCRRI in a 1-week period. The No. 3 cement kiln's emissions were evaluated in the modification of the No. 2 cement kiln (PSD-FL-142). The No. 3 cement kiln is permitted to utilize ash in the process of making cement.

Screening pollutant emission increases for for actual modification purposes and PSD/NAA (Prevention of Significant Deterioration/Nonattainment Area) applicability will accordance with Title 40 Code of Federal Regulations (CFR) Part 52.21 (July, 1990 version), Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4. after the performance test results are evaluated by the Department's Bureau of Air Regulation (BAR) and involved parties (i.e., Department's Southeast District, U.S. EPA, National Park Service, and Dade County Environmental Resources Management) and it is determined that actual pollutant emissions did not increase while utilizing the ash, then the Department will amend the operation permit, No. AO 13-157297, and the federal permit, No. PSD-FL-142, to authorize continued utilization of the ash (PSD-FL-142A). However, if there is an actual emissions increase in pollutant emissions, TFI will not be permitted to utilize the DCRRI ash or any other municipal waste incinerator ash without further evaluation by the Department's BAR and involved parties.

The proposed project will occur at the applicant's facility located at 11000 N.W. 121 Way, Hialeah, Dade County, Florida.

The Department has permitting jurisdiction under Chapter 403, F.S., F.A.C. Chapters 17-2 and 17-4, and Title 40 CFR (July, 1990 version). The project is not exempt from permitting procedures. The Department has determined that an amendment is required for the proposed activity.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information:

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit Amendment File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and,
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.
- If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the request/application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department.

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The request/application is available for public inspection during business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Department of Environmental Regulation Bureau of Air Regulation 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Department of Environmental Regulation Southeast District Office 1900 S. Congress Avenue, Suite A West Palm Beach, Florida 33406

Dade County Environmental Resources Management 801 S.W. 3rd Avenue Miami, Florida 33130

Any person may send written comments on the proposed action to Mr. Barry Andrews at the Department's Tallahassee address. All comments received within 14 days of the publication of this notice will be considered in the Department's final determination.

Best Available Copy



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400 Lawton Chiles, Governor Carol M. Browner, Secretary

FAX TRANSMITTAL SHEET

DATE:
DATE:
DEPARTMENT/COMPANY: KBN Engineering
PHONE: FAX 904/335-4189
TOTAL NUMBER OF PAGES, INCLUDING COVER PAGE: 4

FROM: Bruce Milchell
DEPARTMENT: BAR
OFFICE PHONE: 904/484 -1344 FAX PHONE: 904/922 -6919
SENDER: Patty adams
COMMENTS: Intent package sent 3ed. Ev. today

(C) 4554191 FF1 16:15

geron (John Herren II)

Best Available Copy



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • .2600 Blair Stone Road • Tallahassee, Florida 32399-2400 Lawton Chiles, Governor Carol M. Browner, Secretary

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DEPARTMENT: BAR	
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Florida Department of Environmental Regulation

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

Lawton Chiles, Governor Carol M. Browner, Secretary

November 21, 1991

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

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

Dear Mr. Townsend:

Re: Request for Authorization to Conduct Pollutant Emissions Performance Tests While Utilizing Ash from the Dade County Resource Recovery Incinerator in TFI's No. 3 Cement Kiln

Attached is one copy of the proposed performance test authorization amendment to the operation permit, No. AO 13-157297, and the federal permit, No. PSD-FL-142, for Tarmac Florida, Inc. (TFI) to conduct pollutant emissions tests on the facility's No. 3 cement kiln. The proposed performance tests for pollutant emissions will be conducted while at baseline conditions (utilizing coal ash) and while utilizing bottom and fly ash from the Dade County Resource Recovery Incinerator (DCRRI). The No. 3 cement kiln's emissions were modeled in the modification evaluation for the No. 2 cement kiln (PSD-FL-142). The source is permitted to utilize ash in the process of making cement.

Screening for actual pollutant emission increases for modification purposes and PSD/NAA (Prevention of Significant Deterioration/ Nonattainment Area) applicability will be in accordance with Title 40 Code of Federal Regulations Part 52.21 (July, 1990 version), Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 17-2 and 17-4. If, after the performance test results are evaluated by the Department's Bureau of Air Regulation (BAR) and involved parties (i.e., Department's Southeast District, U.S. EPA, National Park Service, and Dade County Environmental Resources Management) and it is determined that actual pollutant emissions did not increase while utilizing the ash, then the Department will amend operation permit, No. AO 13-157297, and the federal permit, No. PSD-FL-142, to authorize continued utilization of the ash (PSD-FL-However, if there is an actual increase in pollutant emissions, TFI will not be permitted to utilize the DCRRI ash or any other municipal waste incinerator ash without further evaluation by the Department's BAR and involved parties.



Mr. Al Townsend Page Two

If there are any questions, please call Mr. Bruce Mitchell at (904)488-1344 or submit any written comments you wish to have considered concerning the Department's proposed action to me.

Sincerely,

Barry D. Alm.

Bureau of Air Regulation

CHF/BM/rbm

Attachments

- I. Goldman, SE District

 - P. Wong, DERM D. Buff, P.E., KBN
 - C. Shaver, NPS
 - J. Harper, EPA
 - G. Smallridge, Esq., DER
 - J. Alves, Esq., HBG&S
 - J. Reese, DER
 - S. Kastury, DER

BEFORE THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of Application for Amendment by:

Tarmac Florida, Inc. 455 Fairway Drive Deerfield Beach, Florida 33441 DER File No. A0 13-157297 PSD-FL-142

INTENT TO ISSUE

The Department of Environmental Regulation (Department) hereby gives notice of its intent to issue an amendment to the operation permit, No. AO 13-157297, and the federal permit, No. PSD-FL-142, to Tarmac Florida, Inc. (TFI) authorizing performance tests for pollutant emissions on the No. 3 cement kiln, as detailed in the application package specified above. The Department is issuing this Intent to Issue for the reasons stated below and in the attached proposed amendment.

The applicant, TFI, submitted a request on November 4, 1991, to the Department's Bureau of Air Regulation (BAR) for authorization to conduct pollutant emissions tests on the No. 3 cement kiln. The performance tests for pollutant emissions will be conducted while at baseline conditions (utilizing coal ash) and while utilizing Dade County Resource Recovery Incinerator (DCRRI) ash. The amount of DCRRI ash to be utilized is 3,000 tons, which is approximately the amount of ash produced by the DCRRI in a 1-week period. The production time to process the ash through the cement plant is 9 days. The No. 3 cement kiln's emissions were evaluated in the modification of the No. 2 cement kiln (PSD-FL-142). The No. 3 cement kiln is permitted to utilize ash in the process of making cement.

Screening for actual pollutant emission increases modification purposes and PSD/NAA (Prevention of Significant Area) applicability will Deterioration/Nonattainment accordance with Title 40 Code of Federal Regulations (CFR) Part 52.21 (July, 1990 version), Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4. If, after the performance test results are evaluated by the Department's Bureau of Air Regulation (BAR) and involved parties (i.e., Department's Southeast District, U.S. EPA, National Park Service, and Dade County Environmental Resources Management) and it is determined that actual pollutant emissions did not increase while utilizing the ash, then the Department will amend the operation permit, No. AO 13-157297, and the federal permit, No. PSD-FL-142,

to authorize continued utilization of the ash (PSD-FL-142A). However, if there is an actual increase in pollutant emissions, TFI will not be permitted to utilize the DCRRI ash or any other municipal waste incinerator ash without further evaluation by the Department's BAR and involved parties.

The proposed project will occur at the applicant's facility located at 11000 N.W. 121 Way, Hialeah, Dade County, Florida.

The Department has permitting jurisdiction under Chapter 403, F.S., F.A.C. Chapters 17-2 and 17-4, and Title 40 CFR (July, 1990 version). The project is not exempt from permitting procedures. The Department has determined that a permitting action (amendment) is required for the proposed activity.

Pursuant to Section 403.815, F.S., and Rule 17-103.150, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Notice of Intent to Issue Amendment. The notice shall be published one time only within 30 days, in the legal ad section of a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. The applicant shall provide proof of publication to the Department's Bureau of Air Regulation, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within seven days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the amendment.

The Department will issue the amendment with attached conditions unless a petition for an administrative proceeding (hearing) is filed pursuant to the provisions of Section 120.57, F.S.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section The petition must contain the information set forth 120.57, F.S. below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the amendment applicant and the parties listed below must be filed within 14 days of receipt of this intent. Petitions filed by other persons must be filed within 14 days of publication of the public notice or within 14 days of receipt of this intent, whichever first occurs. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information;

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit Amendment File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;

(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

(d) A statement of the material facts disputed by Petitioner,

if any;

- A statement of facts which petitioner contends warrant (e) reversal or modification of the Department's action or proposed
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and,

A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with

respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the request/application have the right to petition to become a party to the proceeding. petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office in General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

Fi - C. H. Fancy, P.E.

Bureau of Air Regulation

Copies furnished to:

- I. Goldman, SE District
- P. Wong, DERM
- J. Harper, EPA
- C. Shaver, NPS
- D. Buff, P.E., KBN
- G. Smallridge, Esq., DER
- J. Alves, Esq., HBG&S
- J. Reese, DER
- S. Kastury, DER

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF INTENT TO ISSUE and all copies were mailed before the close of business on <u>Www.az.1991</u>.

FILING AND ACKNOWLEDGEMENT FILED, on this date, pursuant to §120.52(9), Florida Statuts, with the designated Department Clerk, receipt of which is hereby acknowledged.

Clerk

Date

State of Florida Department of Environmental Regulation Notice of Intent to Issue

The Department of Environmental Regulation (Department) hereby gives notice of its intent to issue to Tarmac Florida, Inc. (TFI) an amendment to the operation permit, No. AO 13-157297, and the federal permit, No. PSD-FL-142, authorizing performance tests for pollutant emissions on the No. 3 cement kiln, as detailed in the application package. The Department is issuing this Intent to Issue for the reasons stated below and in the proposed amendment.

The applicant, TFI, Post Office Box 2998, Hialeah, Florida submitted a request on November 4, 1991, to the Department's 33012, Bureau of Air Regulation (BAR) for authorization to conduct pollutant emissions tests on the facility's No. 3 cement kiln. performance tests for pollutant emissions will be conducted while at baseline conditions (utilizing coal ash) and while utilizing bottom and fly ash from the Dade County Resource Recovery Incinerator The amount of the DCRRI ash to be utilized is 3,000 tons, (DCRRI). which is approximately the amount of ash produced by the DCRRI in a 1-week period. The No. 3 cement kiln's emissions were evaluated in the modification of the No. 2 cement kiln (PSD-FL-142). cement kiln is permitted to utilize ash in the process of making cement.

emission for actual pollutant increases Screening for purposes and PSD/NAA (Prevention of Significant modification Deterioration/Nonattainment applicability Area) will accordance with Title 40 Code of Federal Regulations (CFR) Part (July, 1990 version), Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4. If, after the performance test results are evaluated by the Department's Bureau of Air Regulation (BAR) and involved parties (i.e., Department's Southeast District, U.S. EPA, National Park Service, and Dade County Environmental Resources Management) and it is determined that actual pollutant emissions did not increase while utilizing the ash, then the Department will amend the operation permit, No. AO 13-157297, and the federal permit, No. PSD-FL-142, to authorize continued utilization of the ash (PSD-FL-142A). However, if there is an actual emissions increase in pollutant emissions, TFI will not be permitted to utilize the DCRRI ash or any other municipal waste incinerator ash without further evaluation by the Department's BAR and involved parties.

The proposed project will occur at the applicant's facility located at 11000 N.W. 121 Way, Hialeah, Dade County, Florida.

The Department has permitting jurisdiction under Chapter 403, F.S., F.A.C. Chapters 17-2 and 17-4, and Title 40 CFR (July, 1990 version). The project is not exempt from permitting procedures. The Department has determined that an amendment is required for the proposed activity.

person whose substantial interests are affected by the Department's proposed permitting decision may petition for administrative proceeding (hearing) in accordance with Section 120.57, F.S. The petition must contain the information set below and must be filed (received) in the Office of General Counsel the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any to request person may have administrative right such an determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information:

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

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Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

The request/application is available for public inspection during business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Department of Environmental Regulation Bureau of Air Regulation 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Department of Environmental Regulation Southeast District Office 1900 S. Congress Avenue, Suite A West Palm Beach, Florida 33406

Dade County Environmental Resources Management 801 S.W. 3rd Avenue Miami, Florida 33130

Any person may send written comments on the proposed action to Mr. Barry Andrews at the Department's Tallahassee address. All comments received within 14 days of the publication of this notice will be considered in the Department's final determination.



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400 Lawton Chiles, Governor Carol M. Browner, Secretary

December xx, 1991



CERTIFIED MAIL - RETURN RECEIPT REQUESTED

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

Dear Mr. Townsend:

Re: Amendment to the Operation Permit, No. AO 13-157297, and the Federal Permit, No. PSD-FL-142, to Conduct Performance Tests for Pollutant Emissions on the Facility's No. 3 Cement Kiln While Utilizing Ash from the Dade County Resource Recovery Incinerator

The Department has reviewed the request that you provided on Novembr 4, 1991. We have also considered the Department's legal authority to allow Tarmac Florida, Inc. (TFI) to conduct the requested performance tests. Paragraph 403.061(15), Florida Statutes (F.S.) authorizes the Department to consult with any person proposing to construct, install, or otherwise acquire a pollution control device or system concerning the efficacy of such device or system, or the pollution problem which may be related to the source, device, or system. Paragraph 403.061(16), authorizes the Department to encourage voluntary cooperation persons in order to achieve the purposes of the state environmental 403.061(18), F.S., control act. Paragraph authorizes the Department to encourage and conduct studies, investigations, research relating to the causes and control of pollution. Florida Code (F.A.C.) Rule 17-2.250(5) authorizes the Administrative Department to consider variation in industrial equipment and make allowances for excess emissions that provide practical regulatory controls consistent with the public interest.

In accordance with the provisions of Paragraphs 403.061(15), (16), and (18), F.S., and F.A.C. Rule 17-2.250(5), you are hereby authorized to conduct performance tests for pollutant emissions on TFI's No. 3 cement kiln while at baseline conditions (utilizing coal ash) and while utilizing bottom and fly ash from the Dade County Resource Recovery Incinerator (DCRRI). The No. 3 cement kiln's emissions were modeled in the modification evaluation for the No. 2 cement kiln (PSD-FL-142). The source is permitted to utilize ash in the process of making cement.





Mr. Al Townsend Page Two

Screening for actual pollutant emission increases for modification purposes and PSD/NAA (Prevention of Significant Deterioration/ Nonattainment Area) applicability will be in accordance with Title 40 Code of Federal Regulations Part 52.21 (July, 1990 version), Chapter 403, Florida Statutes, and Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4. If, after the performance test results are evaluated by the Department's Bureau of Air Regulation (BAR) and involved parties (i.e., Department's Southeast District, U.S. EPA, National Park Service, and Dade County Environmental Resources Management) and it is determined that actual pollutant emissions did not increase while utilizing the ash, then the Department will amend the operation permit, No. AO 13-157297, federal permit, No. PSD-FL-142, to authorize continued utilization of the ash (PSD-FL-142A). However, if there is actual emissions increase in pollutant emissions, TFI will not permitted to utilize the DCRRI ash or any municipal waste incinerator ash without further evaluation by the Department's BAR and involved parties.

The performance tests shall be subject to the following conditions:

- 1. The permittee shall notify, in writing, the Department's Southeast District and Bureau of Air Regulation (BAR) offices at least 15 days prior to commencement of the performance tests. A written report shall be submitted to these offices within 45 days upon completion of the last test run.
- 2. Prior to conducting performance tests for pollutant emissions while utilizing the DCRRI ash facility's No. 3 cement kiln (Post-tests), performance tests (Pre-tests/baseline) for pollutant emissions shall be conducted while operating under normal operating conditions with the presently permitted kiln fuels and feed material. The pollutant emissions results of the "Pre-tests" shall be compared to the pollutant emissions results of the "Post-tests" to determine if:
 - a) actual pollutant emissions increased [(baseline versus DCRRI ash utilization (Pre vs. Post-tests)] for modification purposes and PSD applicability, which, if required, includes the submittal of a permit application and the appropriate processing fee, at a minimum; or,
 - b) the operation permit, No. AO 13-157297, and the federal permit, No. PSD-FL-142, can be amended to allow the utilization of the DCRRI ash (PSD-FL-142A) in the facility's No. 3 cement kiln.

Mr. Al Townsend Page Three

- 3. The contents of Mr. David A. Buff's letter received November 4, 1991, are adopted by reference, with the following exceptions:
 - a. From the initial date of utilizing the DCRRI ash in the facility's No. 3 cement kiln, which shall be documented in writing to the Department, the permittee shall be limited to a maximum of 14 days, which is to include 9 days of continuous utilization of DCRRI ash, to conduct performance tests. If additional time is needed, the permittee shall provide the Department with documentation of the progress accomplished to date and shall identify what is left to be done to complete the performance tests.
 - b. A Department Type I audit is required and shall be coordinated with the Department.
 - c. Documentation of the utilization rates of the DCRRI ash in the No. 3 cement kiln shall be required.
 - d. Emissions measurements shall also be required for the following pollutants using the following test methods:

Pollutants/Pollutant Category

Test Method

o PM10/PM2.5

EPA Method 5 or EPA Method 201/201A EPA Method 9 EPA Method 22

o Visible Emissions

Note: Stack tests for particulate matter and visible emissions are to be run concurrently, weather permitting. EPA Method 22 will apply to fugitive particulate matter emissions from the DCRRI ash pile and shall not exceed 10 minutes, total cumulative time observed, in any 1-hour period.

- 5. These authorized performance tests shall not result in the release of objectionable odors pursuant to F.A.C. Rule 17-2.620(2).
- 6. Performance testing shall immediately cease upon the occurrence of a valid environmental complaint by a citizen or other party, or a nuisance or danger to public health or welfare. Performance testing shall not resume until appropriate measures to correct the problem have been implemented.
- 7. The performance tests for pollutant emissions shall be conducted under the direct supervision and responsible charge of a professional engineer registered in Florida.



Mr. Al Townsend Page Four

- 8. This Department action is just to authorize the performance tests for pollutant emissions on the facility's No. 3 cement kiln while at baseline conditions (utilizing coal ash) and while utilizing the DCRRI ash.
- 9. Complete documentation (recording) of any utilization of the DCRRI ash in the facility's No. 3 cement kiln shall be required (i.e., testing results; materials utilized, by weight; etc.) and kept on file for a minimum of two years.
- 10. The Department shall be notified in writing on the date of the last test run completion.
- 11. Attachments (See Attachment Section) are incorporated.

The Department has relied on the information referenced in the attachments and conversations with representatives of the TFI, U.S. EPA-Region IV, Department of Interior's National Park Service, Department's Southeast District, and Dade County's Environmental Resources Management, in authorizing this amendment to the operation permit, No. AC 13-157297, and the federal permit, No. PSD-FL-142.

This letter must be attached to the operation permit, No. AO 13-157297, and the federal permit, No. PSD-FL-142, and shall become a part of the permit.

Sincerely,

STEVE SMALLWOOD, P.E. Director Division of Air Resources Management

SS/BM/rbm

Attachments

- c: I. Goldman, SE District
 - P. Wong, DERM
 - J. Harper, EPA
 - C. Shaver, NPS
 - D. Buff, P.E., KBN
 - G. Smallridge, Esq., DER
 - J. Alves, Esq., HBG&S
 - J. Reese, DER
 - S. Kastury, DER

Attachment Section

- 1. Mr. Tanhum Goldshmid's letter with attachment received June 7, 1991.
- 2. Ms. Delores Smith's letter received June 10, 1991.
- Mr. Steve Smallwood's letter dated July 1, 1991.
- 4. Mr. John A. Reese's letter dated July 16, 1991.
- 5. Mr. David A. Buff's letter received October 18, 1991, via FAX.
- 6. Mr. David A. Buff's letter with attachments received November 4, 1991.
- 7. Mr. David A. Buff's letter with enclosures received November 6, 1991, via FAX.
- 8. Mr. David A. Buff's letter with enclosures received November 12, 1991.
- 9. Mr. David A. Buff's Letter of Transmittal with attachment received November 18, 1991.
- 10. Title 40 Code of Federal Regulations (July, 1990 version).
- 11. Intent to Issue package dated November 21, 1991.

Attachment 1

.,



RECEIVED

JUN 0 7 1991

Division of Air
Resources Management

May 28, 1991

Mr. Steve Smallwood, Director
Division of Air Resources Management
Florida Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Dear Mr. Smallwood:

The Dade County Department of Solid Waste Management (DSWM) is currently investigating recycling of ash residue generated from our Resources Recovery Facility. One possible way to utilize the ash is to incorporate it into cement which would subsequently be used in building materials such as concrete blocks. The Department has conducted preliminary meetings with local companies expressing interest in this idea, along with DERM representatives.

John Glunn of DER has indicated that a trial burn must be conducted prior to utilization of waste materials by an existing facility. Test parameters are determined by the composition of the waste and the potential for generation of secondary pollutants. The DSWM has taken the initiative in characterizing the source material by processing a representative ash sample and having it analyzed for the parameters recommended by DER. The sample was sized to a 3/4-inch diameter and a portion of the ferrous component removed by magnets. The sample was then coned and quartered according to ASTM Standards, and analyzed for metals and various organics (see attached).

The TCLP results indicate that the ash does not contain toxic levels of metals. The concentrations of the five metals with TCLP standards were well below the regulatory level. Based on a comparison of the total quantity of these metals to the TCLP quantity, the leaching potential appears to be minimal.

The presence of total cadmium, chromium, lead and arsenic in quantities above the previous DER guidance levels (BAQM, 1987) for decontamination of soils in asphalt plants does warrant further consideration. The ash will be incorporated into the cement process in approximately a one to seven ratio, however, which will bring the concentration of chromium and arsenic below the guidance level.

The organics analyses indicate no phthalates, dioxins, or furans present in the sample. Napthalene was the only polyaromatic hydrocarbon detected, at a concentration of less than 1 ppm. Based on the fact that organics generally were not detected in the source material, and conditions in the cement rotary kiln (temperature and residence time) which would effectively destroy fugitive organics, we do not feel that further testing of organics is warranted.

The preliminary results are encouraging and do not indicate that incorporation of Resource Recovery ash residue into cement would endanger human health or the environment. The ratio at which the ash will be incorporated into the cement will further minimize environmental impacts. The focus in stack testing should be on the metals which may have a negative impact on air quality. The results of the stack test will be the determining factor in whether this process is acceptable and if modifications in existing air permits will be required at the facilities.

The DSWM intends to strictly comply with criteria listed in DER 17-702.600 for recycling of ash residue. I am confident that we can work together to establish an outstanding program. Utilizing the ash in this manner will help the County to meet its 1994 recycling goal, and reduce the need to site additional ash monofills. I look forward to your concurrence on the stack test parameters.

Sincerely,

Tanhum Goldshmid Assistant Director Technical Services

DS/CD

Attachment

CC: Carl Pfaffenberger, DERM
Pat Wong, DERM
Rick Poley, DERM
John Glunn, DER
Buck Oven, DER
II. F207



Laboratories, Inc.

FORT LAUDERDALE . SAVANNAH

CLIENT DCSW SAMPLE LOCATION #1 ASH SAMPLE NUMBER 001-041891 DATE RECEIVED 04/18/91 DATE SAMPLED 04/11/91 SAMPLE TYPE SOIL SUBMITTER

RALPH TARDIF

DATE REPORTED: 05/15/91

EPA: # FL095

FL DRINKING WATER: # 86144 FL ENVIRONMENTAL: # E86006

GEORGIA: # 828

SOUTH CAROLINA: # 96015

TEST RESULTS

05/01/91 TCLP EXTRACTION - METALS CADMIUM TCLP 0.03 MG/L SM 304 CHROMIUM TCLP 0.04 MG/L SM 304 0.24 LEAD TCLP MG/L SM 303A <0.0002 MG/L MERCURY TCLP SM 303F ARSENIC TCLP 0.006 MG/L SM 304 0.32 COPPER TCLP MG/L EPA 220.1 30.00 MG/KG D.W. CADMIUM, T 3050/7131 54.0 MG/KG D.W. CHROMIUM, T 3050/7191 1500.0 MG/KG D.W. LEAD, T 3050/7421 MERCURY, T <0.1 MG/KG D.W. 7471 3050/7060 25.00 MG/KG D.W. ARSENIC, T IRON, T 27300 MG/KG D.W. 3050/7380 5800.0 MG/KG D.W. COPPER, T 3050/7210 3050/7520 86.0 MG/KG D.W. NICKEL, T VANADIUM, T 3050/7911 38 MG/KG D.W. BERYLLIUM, T MG/KG D.W. 3050/7091 0.9 IRON TCLP 0.05 MG/L NICKEL TCLP <0.03 MG/L VANADIUM TCLP 0.55 MG/L <0.002 BERYLLIUM TCLP MG/L CHLORIDE IN SOLID SAMPLE 7000 MG/KG EPA 8280 NEGATIVE EPA 8100 POSITIVE EPA 8060 NEGATIVE DIOXIN <0.1 UG/L EPA 625

IF YOU HAVE ANY QUESTIONS PLEASE CONTACT ME.

DONALD S. MCCORQUODALE OR. PH.D.

MICROBIOLOGIST



Laboratories, Inc.

FORT LAUDERDALE = SAVANNAH

-CERTIFICATIONS-

EPA: #FLO95

FL DRINKING WATER: #86144

FL ENVIRONMENTAL: #E86006

GA # 828 SC # 96015

CLIENT: D.C.S.W./001-041891

SAMPLE: #1 ASH

DATA FILE: >5A84A::D5

DATE ANALYZED: 5/11/91 0:42

ILUTION FACTOR: 100.00

EPA METHOD 8100

CAS NO.	PARAMETER	CONCENTRATION (ug/kg)	* MDL (ug/kg)
208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 191-24-2 207-08-9 218-701-3 206-44-0 86-73-7 193-39-5	BENZO (K) FLUORANTHENE CHRYSENE DIBENZO (ah) ANTHRACENE FLUORANTHENE FLUORENE INDENO (1,2,3-cd) PYRENE NAPHTHALENE PHENANTHRENE	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.50 0.50 0.00 1.00 2.52 5.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
	MISCELLANEOUS	ANALYTES	
	1-METHYLNAPHTHALENE 2-METHYLNAPHTHALENE	0.0	0.50 0.50

* MDL METHOD DETECTION LIMIT - Is actually MDL * DILUTION FACTOR.

JOHNSON - Chemist



Laboratories, Inc.

-CERTIFICATIONS-

EPA: # FL095

.FL DRINKING WATER: #86144

FL ENVIRONMENTAL: #E86006

GA # 828

SC # 96015

5/11/91 0:42 DILUTION FACT: 100.0

DATE REPORTED:

DATA FILE: >5A84A::D5

SAMPLE: #1 ASH

CLIENT: D.C.S.W./001-041891

EPA METHOD 8060 PHTHALATES IN - SOILS

CAS No.	PARAMETER	CONCENTRATION (ug/kg)	* MDL (ug/kg)
117-81-7 85-68-7	BIS(2-ETHYLHEXYL)PHTHALATE BUTYLBENZYLPHTHALATE	0.0	0.50
84-74-2 84-66-2	DI-n-BUTYLPHTHALATE DIETHYLPHTHALATE	0.0	1.00
131-11-3		0.0	0.50 0.50

MDL METHOD DETECTION LIMIT - Is actually MDL \times DILUTION FACTOR. A CONCENTRATION OF 0.0 = BMDL (BELOW METHOD DETECTION LIMIT)

Chemist

Analyte	50-m CP-511 - 88	30-m DB-5	3m SP-2250
2,3,7,8-TCDF	25.2	17.8	26.7
2,3,7,8-TCDD	23.6	17.4	26.7
1,2,3,4-TCD0	24.1	17.3	26.5
1,2,3,4,7-PeCDD	30.0	20.1	28.1
1,2,3,4,7,8-HXCDD	39.5	22.1	30.6
1,2,3,4,6,7,8-HpCDD	57.0	24.1	33.7
OCDD;	NM · · ·	25.6	ММ

^{*}Retention time in min, using temperature programs shown below.

NM = not measured.

Temperature Programs:

SP-2250

70°-320° at 10°/minute.

. .

Column Manufacturers

CP-SII-88 Chrompack, Incorporated, Bridgewater, New Jersey
DB-5, J and W Scientific, Incorporated, Rancho Cordova,
California
SP-2250 Supelco, Incorporated, Bellefonte, Pennsylvania

Attachment 2



RECEIVED

JUN 1 0 1991

June 6, 1991

Division of Air Resources Management

Mr. Hamilton Oven
P.E. Administrator
Division of Air Resources Management
Florida Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Dear Mr. Oven:

As you are aware, the Dade County Department of Solid Waste Management (DSWM) is currently investigating recycling of ash residue generated from our Resources Recovery Facility. The steps taken by the DSWM to date are characterization of the ash and subsequent formulation of a parameter list for stack testing.

In order to determine the proper quantity and ratio of ash to be utilized in the cement manufacuring process, the DSWM now wishes to proceed with a test (process) run. The process run will be conducted using 3000 tons of ash, which is the minimum quantity required to produce a representative batch of cement. The ash will be incorporated into the cement in approximately a one to seven ratio. Operational and handling information gathered during the process run will be used to finalize standard operating procedures for conducting the run during which the stack test will be conducted to determine air quality effects.

The purpose of this letter is to request permission from FDER to proceed with the above described course of action. The DSWM believes that this would be the most prudent and effective procedure to follow in order to achieve reliable results from the future stack test. The stack test will be performed with the concurrence of all appropriate agencies and in compliance with DER 17-702.

Tarmac?

Sincerely,

Dolores Smith, Chief Environmental Compliance

cc: Alex Padva, DER Bob Johns, DERM

II F206

Attachment 3



Florida Department of Environmental Regulation

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

Lawton Chiles, Governor

Carol M. Browner, Secretary

July 1, 1991

Tanhum Goldshmid
Assistant Director
Technical Services
Metro Dade Solid Waste Management
Suite 201
8675 Northwest 53rd Street
Miami, Florida 33166

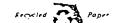
RE: Proposed Recycling Of Incinerator Ash

Dear Mr. Goldshmid:

We have reviewed your letter of May 28, concerning the proposed recycling of incinerator ash residue from the Dade County Resource Recovery Facility. The Division of Air Resources Management does not object to the proposed use of incinerator ash providing the owner or operator of each affected facility applies for and receives all required permits.

Any company which proposes to consider the use of incinerator ash residue in their manufacturing process must apply for and obtain a federally enforceable permit to construct/modify an air pollution source prior to conducting a test burn. The company will need to provide the Department with reasonable assurance that the proposed operation of the source will not emit criteria pollutants, hazardous air pollutants, and toxic air pollutants in sufficient quantities to endanger public health and welfare. Ambient air quality modeling of projected downwind pollutant concentrations will be one element of the required reasonable assurance. The conditions of the construction permit will include limitations on hours of operation, process rates, and emissions; and, a trial burn protocol.

Based on the analytical results that you supplied, the incinerator ash residue does not appear to contain toxic concentrations of leachable arsenic, cadmium, chrome, and lead. The analytical results further indicate that the concentration of total lead (leachable plus fixed) is about 20 times the level that the Department considers toxic. Even at a final mix ratio



Tanhum Goldshmid July 1, 1991 Page Two

of one to seven, the total lead concentration would exceed the lead toxic levels established by the Department. We do not know whether the incinerator ash residue contains toxic concentrations of the remaining metals (barium, selenium, and silver) and organic compounds listed in Table 1 of 40 CFR 261.45, because analytical results were not included. The concentration of the compounds (both total and leachable) listed in Table 1 of 40 CFR 261.45 will be needed. The concentrations of total volatile organic aromatics, volatile organic halocarbons, sulfur, and nitrogen in the incinerator ash residue will be needed by the Department's air permit review engineers when a company applies for the necessary air construction permits.

The permittee may be required to perform emission tests for particulate, arsenic, beryllium, cadmium, chromium, lead, mercury, hydrogen chloride, carbon monoxide, sulfur dioxide, nitrogen oxide and specific volatile organic compounds during the test burn as a condition of the required air construction permit.

Please call Clair Fancy at (904) 488-1344, if you have any questions about the above.

Sincerely,

STENE SMALLWOOD, P. I

Director

Division Of Air Resources Management

SS/MH/ht

cc: Clair Fancy, FDER
Barry Andrews, FDER
Don Ehlenbeck, FDER
Scott Benyon, FDER SE FL District
Isadore Goldman, FDER SE FL District
Carl Pfaffenberger, DERM
Pat Wong, DERM

Attachment 4



Florida Department of Environmental Regulation

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

Lawton Chiles, Governor Carol M. Browner, Secretary

July 16, 1991

Ms. Delores Smith, Chief Environmental Compliance Metro Dade Solid Waste Management 8675 Northwest 53rd Street Suite 201 Miami, Florida 33166

Dear Ms. Smith:

This is in response to your letter to Hamilton S. Oven, June 6, 1991, about recycling ash from the Resource Recovery Facility into a cement manufacturing process. Recycling of solid waste combustor ash residue is encouraged provided it is done so that the recycling process or resultant products will not cause discharges of pollutants to the environment. Before approval can be given for the proposed test burn, it is necessary to provide a detailed description of the process that will be undertaken, in accordance with Rule 17-702.600, Florida Administrative Code. It is not clear in the June 6 letter exactly what is involved in the process. is assumed that it will involve the use of a cement kiln and a stack test for that facility. Management of the ash from the generation point through the recycling process and testing of the final product to determine effects on the environment should be documented in any operating procedure.

If transportation or processing of the ash has the potential to produce air emissions, appropriate air permits are required.

For your information, a copy of a letter from the Director of the Division of Air Resources Management to TanHum GoldSchmid on the subject, is enclosed. Ms. Delores Smith Page Two July 16, 1991

It is recommended that you consult with the district office in West Palm Beach which has the responsibility for approving the recycling process. Please contact Alex Padva, Waste Program Administrator, and Vic Kamath, P.E., for the Solid Waste Program at (407) 433-2650.

Sincerely,

John A. Reese, Engineer Solid Waste Section

JAR/tkm

Enc: Rule 17-702
cc: John Ruddell
Bill Hinkley
Buck Oven
Alex Padva
Vic Kamath
Chris McGuire

Mike Harley

Attachment 5



Post-It* brand fax transmittel	memo 7671 # of pages + 2
To Clair Fancy	From Nave Buff
Co. FDER	CO. KBN Engineering
90086	Phone # 3-3/ 9000
704922 6979	Fax# 332 #189

October 18, 1991

Mr. Clair Fancy
Division of Air Resources Management
Florida Department of Environmental Regulation
2600 Bluir Stone Road
Tallahassee, FL

Re:

Proposed Utilization of Incinerator Ash as Raw Material

Tarmac Cement Plant Dade County, Florida

Dear Mr. Fancy:

In May of this year, Metro Dade County Division of Solid Waste informed the Department as to its desire to utilize ash from the Dade County Resources Recovery facility as a raw material in Tarmac Florida's portland cement plant (refer to letter from Tanhum Goldshmid to Steve Smallwood dated May 28, 1991). The Department responded to this inquiry in a letter dated July 1, 1991. The response indicated that a federally enforceable air construction permit would have to be obtained prior to implementing this change, and even prior to a trial run with this material.

I have reviewed Dade County's request to the Department, and Tarmac's most recent operating permit renewal application and subsequent operating permit. Based on this review, it is apparent that the incinerator ash Tarmac desires to utilize is already approved for use. The previous applications submitted by Tarmac have stated a raw material used in the process is "ash/mineral aggregates". Clearly, Dade County incinerator ash would fall under this raw material category. Therefore, I do not believe that a permit modification or amendment is needed in order for Tarmac to use this raw material.

Although Tarmac and I do not believe any FDER approvals are necessary to utilize this ash, Tarmac has asked me to provide you with information to allow a better understanding of the utilization of this ash. Tarmac currently uses combustor ashes as a raw material in the manufacture of Portland cement clinker. The ashes are needed to provide the required alumina, iron and silica components of the raw mix. These components, along with high calcium carbonate limestone, undergo a chemical transformation in the kiln to produce portland cement clinker.

In order to present an absolute worst case estimate of the potential effect of utilizing the Dade County ash in the process, I have taken a very conservative approach. Tarmac currently projects to utilize a limestone-to-ash ratio of 7 to 1 in the process. This equates to a maximum of 14.3% ash in the raw feed. Tarmac currently is permitted to emit 42.6 lb/hr of particulate at a feed rate of 142 tons/hr for kiln 3. It was assumed that Tarmac currently emits no trace metals, and that 14.3% of the particulate emitted from the kiln is ash (same proportion as in the raw feed). This 14.3% of the particulate

Mr. Clair Fancy October 18, 1991 Page 2



emission was then assumed to contain trace metals in the same concentration as indicated in the attached analysis of Dade County ash. The following conservative emission estimates were obtained:

Arsenic- $42.6 \text{ lb/hr} \times 0.143 \times 25 \text{ ppm} = 0.00015 \text{ lb/hr}$

Beryllium- $42.6 \text{ lb/hr} \times 0.143 \times 0.9 \text{ ppm} = 0.0000055 \text{ lb/hr}$

Cadmium- $42.6 \text{ lb/hr} \times 0.143 \times 30 \text{ ppm} = 0.00018 \text{ lb/hr}$

Chromium- $42.6 \text{ lb/hr} \times 0.143 \times 54 \text{ ppm} = 0.00033 \text{ lb/hr}$

Lead- $42.6 \text{ lb/hr} \times 0.143 \times 1,500 \text{ ppm} = 0.0091 \text{ lb/hr}$

Mercury- $42.6 \text{ lb/hr} \times 0.143 \times 0.1 \text{ ppm} = 0.00000061 \text{ lb/hr}$

Chloride- $42.6 \text{ lb/hr} \times 0.143 \times 7,000 \text{ ppm} = 0.043 \text{ lb/hr}$

Copper- $42.6 \text{ lb/hr} \times 0.143 \times 5,800 \text{ ppm} = 0.035 \text{ lb/hr}$

Nickel- $42.6 \text{ lb/hr} \times 0.143 \times 86 \text{ ppm} = 0.00052 \text{ lb/hr}$

Vanadium- $42.6 \text{ lb/hr} \times 0.143 \times 38 \text{ ppm} = 0.00023 \text{ lb/hr}$

Iron- $42.6 \text{ lb/hr} \times 0.143 \times 27,300 \text{ ppm} = 0.17 \text{ lb/hr}$

As shown, these emissions are extremely small.

Pursuant to DER Rule 17-2.210, any "modification" to an existing source must be the subject of an air construction permit. Rule 17-2.100(127) provides that a "modification" is any "change in the method of operation of" an existing source. Utilizing incinerator ash is not a "change" because Tarmac's previous applications identified "ash/mineral aggregates" as the contemplated raw material, and the conditions of Tarmac's permits authorize operation in accordance with the representations made in the applications.

Tarmac desires to move forward with this project. Please advise if this is acceptable, since Tarmac is proceeding with a test burn and stack testing as recommended in your letter.

Sincerely.

David A. Buff, M.E., P.E.

Principal Engineer

cc: Al Townsend

Attachment 6

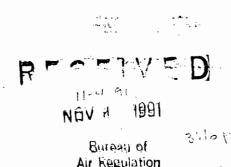


November 1, 1991

Mr. Clair Fancy Division of Air Resources Management Florida Department of Environmental Regulation 2600 Blair Stone Road Tallahassee, FL 32399-2400

Proposed Use of Incinerator Ash as Raw Material Tarmac Florida, Inc., Cement Plant Dade County, Florida

Dear Mr. Fancy:



Hand Believed

On October 24, 1991, representatives of Tarmac Florida, Inc., met with members of your staff to discuss the use of Dade County Resource Recovery (DCRR) incinerator ash as a raw material at Tarmac's cement plant. The Department's recommendation on this proposed action, as described by Mr. Bruce Mitchell of your staff, was for Tarmac to request a "minor modification" to Tarmac Florida's Kiln 3 current operating permit. The minor modification request would allow Tarmac to conduct a trial burn with the DCRR ash to determine if further permitting requirements apply. This also would inform the public of the test through the required public notice.

The purpose of this letter is to request the "minor modification" permit for Kiln 3 at Tarmac. The DCRR incinerator ash would be brought to Tarmac for incorporation into the raw feed for Kiln 3. A test burn plan is described in Attachment A. The plan describes the testing that will be conducted to determine "baseline" emissions as well as emissions when the DCRR ash is being used.

Although Tarmac does not believe any permit modification is necessary to utilize the DCRR ash, Tarmac is submitting this request in order to proceed with the test burn in an expeditious manner. The \$250 application processing fee is enclosed. Your cooperation in this matter is appreciated.

Sincerely,

David A. Buff, M.E., P.E.

David a. Buff

Principal Engineer

Enclosures

cc: Al Townsend Jim Alves Bruce Mitchell Tahnum Goldschmid Charlie Strong Project File

Attachment A

TARMAC FLORIDA, INC. ASH RECYCLING TEST BURN PLAN

I. INTRODUCTION

Metro-Dade County owns the Dade County Resource Recovery (DCRR) facility located in northern Dade County at N.W. 66th Street and 97th Avenue. The facility is currently operated under a 23-year contract with Montenay Power Corporation. Activities conducted at DCRR encompass municipal solid waste (MSW) processing and recovery of ferrous metal and aluminum, combustion of the resultant fuel, steam production, and subsequent electric generation. A landfill adjacent to DCRR is operated by Metro-Dade County as an ash monofill for disposal of combustion ash.

Tarmac Florida, Inc., is negotiating with Montenay Power to use the resource recovery ash as a substitute raw material in its cement-making process. This proposal could reduce Dade County's reliance on landfills as a method of disposal of ash. Tarmac will be conducting a test burn of bottom and fly ash generated from the Montenay plant to determine if recycling the ash for use in cement is feasible. The test burn will use 3,000 tons of ash, which is approximately the amount of ash produced by DCRR in a 1-week period. This amount of ash will allow the cement plant to operate at full capacity with the DCRR ash during the test burn. The production time to process the ash through the cement plant is 9 days.

Samples of the ash and the final cement product will be taken to verify that use of the ash in cement is environmentally safe. Stack testing will determine if released air emissions comply with state regulated levels. Samples also will be taken when the cement plant is using its normal supply of ash to determine "baseline" conditions.

Tarmac Florida, Inc., is a cement plant located on N.W. 121st Way in Medley. Tarmac is currently using coal ash to produce its cement. It has been using the coal ash for cement production for the past 20 years. At this time, the ash is being transported from northern Florida to the Medley plant by way of rail freight. Presently, Tarmac is buying the ash in bulk from power plants and stockpiling it outside its facility. Tarmac purchases enough ash to last

approximately 6 months. If Tarmac is able to use the ash from DCRR, the transportation costs will be reduced, and the need for long-term stockpiling will be eliminated. Metro-Dade County also would benefit from the program by significantly reducing the amount of space needed to landfill the ash.

The ash produced at DCRR has a high concentration of silica. This silica is combined with the calcium carbonate in limestone to make the primary compound needed to produce portland cement. The cement compound also must contain a sufficient amount of iron and aluminum. The DCRR ash contains less of these compounds than the ash Tarmac historically has been using. To compensate for this deficiency, Tarmac will supplement the ash received from DCRR with iron and with bauxite, which is high in aluminum.

II. TRANSPORTATION AND STORAGE

The ash will be transported by Dade County vehicles or private haulers. The ash will be delivered over a 3-day period. The total round-trip distance is approximately 17 miles. Trucks used to transport the ash will have roll canvas tops to prevent the ash from becoming airborne. The ash delivered by the trucks will be deposited on the ground at Tarmac next to a loading hopper.

III. CEMENT PRODUCTION

Immediately after ash arrives at the Tarmac plant, it is mixed with limestone. This prevents the ash from caking and solidifying. Front-end loaders will transfer the premixed materials from the ground into an existing hopper. This premix is then transported by way of a belt conveyor to raw material storage silos. The ash is then mixed with additional limestone, which is housed in a separate silo, to produce a raw mix. The limestone, which contains 89 percent calcium carbonate, is mixed with the ash to produce the proper alumina, iron, silica, and calcium carbonate content needed to make the cement.

The limestone/ash premix and the limestone from the silo are fed through weigh-belt conveyors to the grinding mill for slurry production. The raw mix is ground with water to produce a slurry. The slurry is stored and blended in large, steel tanks. Next, it is pumped to the feed end of an inclined, coal-fired, rotary kiln. The slurry passes through the kiln, where it is first heated, driving off the moisture, then calcined. The mixture reaches the critical temperature of 2,800°F,

and calcium silicates and calcium aluminates form. These are the fundamental compounds required to produce portland cement clinker.

The hot clinker is cooled to 150°F and conveyed to silos. It is then withdrawn, gypsum is added, and the mix is interground in grinding mills to produce portland cement. This cement is pneumatically pumped to storage silos. From these silos, it is shipped by truck and rail to customers.

The attached flow chart describes the cement production rates. The cement clinkers will contain a total of 3,000 tons of ash during a 7-day period. There will be approximately 13 percent ash, by weight, in the raw mix (slurry); 20 percent ash, by weight, in the clinker; 19 percent ash, by weight, in the cement; and 3.4 percent ash, by weight, in the concrete.

IV. SAMPLING PROTOCOL

Samples will be taken to represent both baseline conditions (current operation) and conditions when DCRR ash is being used. The baseline sampling program will consist of the following:

- 1. Sample of ash currently being used,
- 2. Sample of clinker currently produced by Kiln 3,
- 3. Sample of finished cement product currently produced,
- 4. Sample of Kiln 3 stack emissions, and
- 5. Sample of dust collected in electrostatic precipitator (ESP) serving Kiln 3.

The parameters to be sampled and/or analyzed for each media are presented in Table A-1.

The sampling program for the DCRR incinerator ash test burn will consist of the following:

- 1. Sample of ash, immediately before it is transported to Tarmac;
- 2. Sample of clinker produced by Kiln 3;
- 3. Sample of finished cement product;
- 4. Stack testing of Kiln 3; and
- 5. Sample of Kiln 3 ESP dust.

The initial ash sample will be taken by Dade County Department of Solid Waste Management Environmental Compliance personnel. The clinker, cement, and ESP dust samples will be

collected by Tarmac laboratory personnel while taking quality control samples. All samples will be tested by Spectrum Laboratories, Inc., located in Fort Lauderdale, Florida.

Stack testing will start on day 7 of the test burn. This is to assure that no residue from the previously used coal ash is present. Emissions testing for multimetals will consists of three test runs of two hours in duration. All multimetal samples, including one blank, will be analyzed in accordance with methods of atomic absorption. Emissions will be tested for the parameters shown in Table A-1.

SO₂, NO_x, and CO emissions will not be sampled for the test burn. SO₂ emissions from Kiln 3 are known to be dependent on the sulfur content of the coal burned in the kiln and the SO₃ content of the raw feed (primarily limestone). Four samples of DCRR incineration ash have been analyzed previously for equivalent SO₃ content. The results were as follows: 0.22 percent, 0.76 percent, 0.75 percent, and 1.45 percent, with an average of 0.8 percent. Between 12 and 16 percent of the raw feed mix Tarmac uses is ash, with bauxite and iron oxide as sweeteners. Neither bauxite or iron oxide contains any sulphur. At the anticipated substitution rate of 16 percent of the raw dry feed, the SO₃ content would then be 0.13 percent, which is the same as Tarmac's historic average raw feed SO₃ content. Therefore, the total sulfur content of the raw feed is not expected to change as a result of using DCRR ash, and SO₂ emissions should not be affected.

NO_x emissions from Kiln 3 are dependent upon the nitrogen content of the coal, the combustion temperature in the kiln, and the amount of excess air in the kiln. Since these parameters will not change as a result of using an alternative ash supply, NO_x emissions are not expected to change as a result of using the DCRR ash.

CO emissions from the kiln are limited because of safety considerations related to the ESP. The use of an alternative ash source will not affect CO emissions.

V. SCHEDULE

- A. Baseline sampling Conducted 15 days after public notice is published
- B. Test Burn Sampling
 - Day 1: Ash is sampled by Dade County. Ash is then transported by truck to Tarmac and is blended with raw feed.
 - Day 2: Same as day 1.
 - Day 3: Same as day 1; raw mill grinding has begun.
 - Day 4: Raw mill is operating.
 - Day 5: Raw mill is operating, and use of old and new slurry has begun.
 - Day 6: Old and new slurry is used.
 - Day 7: New slurry is used containing new ash only. Samples of clinker and ESP dust are obtained. Stack testing will begin on this day.
 - Day 8: Same as day 7; stack testing is continued as necessary.
 - Day 9: Same as day 7; stack testing is continued as necessary.
 - Day 12: Sample of finished cement product is obtained.

Professional Engineer Certification

Name: David A. Buff

Signature: David a. Buff

Florida P.E. Registration No.: 19011

Seal:

Table A-1. Test Burn Sampling Plan

<u>Metals</u>

I. DCRR Ash; Tarmac Clinker, Cement, and ESP Dust

	Arsenic	3050/7060
	Barium	3050/7080
	Beryllium	3050/7091
	Cadmium	3050/7131
	Chromium (Total)	3050/7191
	Copper	3050/7210
	Iron	3050/7380
	Lead	3050/7421
	Mercury	7471
	Nickel	3050/7520
	Silver	3050/7760
	Vanadium	3050/7911
	Zinc	3050/7950
В.	Nonmetals	
	Chloride	9252
	Dioxin	625
	Nitrogen	SM417-420
	PAHs	8100
	Pthalates	8060
	Sulfur	SM304

II. Kiln 3 Stack

A. Metals

EPA multi-metals train for sample collection, and methods listed above for analysis.

Method

B. Nonmetals

CO₂/O₂
Dioxin/Furans
Hydrogen Chloride
PAHs
Particulate Matter
Semi-Volatile Organic Compounds

Stack Gas Flow/Moisture/Temperature Volatile Organic Compounds (including benzene) EPA Method 3

EPA Method 23/EPA 8290

Method 0050

Modified Method 5/8100

Modified Method 5

Modified Method 5/8270

EPA Methods 2, 4, and 5

VOST

- EVERY TWO HOURS
- **EVERY EIGHT HOURS**

BE CONSUMED BY THE KILN IN 7 DAYS.

Attachment 7

KBN

FACSIMILE COVERSHEET

DATE: 100 6, 91
TO: Bruce Mitchell
ORGANIZATION: FDER
FROM: ONE DUBER:
TOTAL NUMBER OF PAGES: (including cover page)
MESSAGE/INSTRUCTIONS:
PROJECT NUMBER: 90086 FAX OPERATOR:
() This is the ONLY form of delivery of the transmitted document.
(V) The original of the transmitted document will be sent by:
() US Mail () Overnight delivery () Other:
Return original to May Hym
cc: Project File yes no



November 6, 1991

Mr. Clair Fancy
Division of Air Resources Management
Florida Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399

Re:

Proposed Utilization of Incinerator Ash as Raw Material

Tarmac Florida, Inc. Cement Plant

Dade County, Florida

Dear Mr. Fancy:

In response to Bruce Mitchell's request, I am enclosing an analysis of trace elements and other pollutants for the Dade County incinerator ash. This is the ash which Tarmac will use in the test burn. Please review this information and advise if we can proceed with the public notice.

Sincerely,

David A. Buff, M.E., P.E.

Principal Engineer

ce: Al Townsend
Jim Alves
Bruce Mitchell

BEST AVAILABLE COPY



Laboratories, Inc.

RALPH TARDIF

FORT LAUDERDALE • SAVANNAH

CLIENT	DCSW
SAMPLE LOCATION	#1 ASH
SAMPLE NUMBER	001-041891
DATE RECEIVED	04/18/91
DATE SAMPLED	04/11/91
SAMPLE TYPE	SOIL

SUBMITTER

DATE REPORTED: 05/15/91
EPA: # FL095
FL DRINKING WATER: # 86144
FL ENVIRONMENTAL: # E86006
GEORGIA: # 828

SOUTH CAROLINA: # 96015

TEST		RESULTS
	× .	

TCLP EXTRACTI	ON - METALS		05/01/93	L	
CADMIUM TCLP			0.03	MG/L	
CHROMIUM TCLP		,	0.04	MG/L	
LEAD TCLP	SM 303A		0.24	MG/L	
MERCURY TCLP			<0.0002	,	
ARSENIC TCLP	SM 304		0.006	MG/L	
COPPER TCLP	EPA 220.1		0.32	MG/L	
CADMIUM, T	3050/7131		30.00	MG/KG	D.W.
CHROMIUM, T	3050/7191		54.0	MG/KG	D.W.
LEAD, T	3050/7421		1500.0	MG/KG	D.W.
MERCURY, T	7471		<0.1	MG/KG	D.W.
ARSENIC, T	3050/7060		25.00	MG/KG	
IRON, T	3050/7380		27300	MG/KG	D.W.
COPPER, T	3050/7210		5800.0	MG/KG	D.W.
NICKEL, T	3050/7520		86.0	MG/KG	D.W.
VANADIUM, T	3050/7911		38	MG/KG	D.W.
BERYLLIUM, T	3050/7091		0.9	MG/KG	D.W.
IRON TCLP			0.05	MG/L	
NICKEL TCLP			<0.03	MG/L	
VANADIUM TCLP		~	0.55	MG/L	
BERYLLIUM TCL	P		<0.002	MG/L	
CHLORIDE IN S	OLID SAMPLE		7000	MG/KG	
EPA 8280			NEGATIVE	2	
EPA 8100			POSITIVE	2	
EPA 8060			NEGATIVE	E	
DIOXIN	EPA 625		<0.1	UG/L	

IF YOU HAVE ANY QUESTIONS PLEASE CONTACT ME.

DONALD S. MCCORQUODALE, JR. PH.D.

1ICROBIOLOGIST

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Laboratories, Inc.

FORT LAUDERDALE • SAVANNAH

-CERTIFICATIONS-

EPA: #FL095

FL DRINKING WATER: #86144 FL ENVIRONMENTAL: #86006

GA # 828

8C # 96015

CLIENT: D.C.S.W./001-041891

SAMPLE: #1 ASH DATA FILE: >5A84A::D5

: ANALYZED: 5/11/91 0:42

ION FACTOR: 100.00

EPA METHOD 8100

NO.	PARAMETER	CONCENTRATION (ug/kg)	* MDL (ug/kg)
120-12-7 56-55-8 205-99-2 191-24-9 218-01-9 53-7-44-9 53-7-44-7 193-39-5 91-20-3	ACENAPHTHYLENE ANTHRACENE BENZO (a) ANTHRACENE BENZO (a) PYRENE BENZO (b) FLUORANTHENE BENZO (chi) PERYLENE BENZO (k) FLUORANTHENE CHRYBENE DIBENZO (ab) ANTHRACENE FLUORANTHENE FLUORENE INDENO (1,2,3-cd) PYRENE NAPHTHALENE PHENANTHRENE	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.500 0.500 0.2505 0.000 12.525 0.000 0.555 0.000 11.000
	MISCELLANEOUS ANALYTES	_	
	1-METHYLNAPHTHALENE 2-METHYLNAPHTHALENE	0.0	0.50

MDL METHOD DETECTION LIMIT - Is actually MDL * DILUTION FACTOR.

EYLE A. JOHNSON - Chemist

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Laboratories, Inc.

FORT LAUDERDALE • SAVANNAH

-CERTIFICATIONS-

EPA: # FL095

FL DRINKING WATER: #86144

FL ENVIRONMENTAL: #E86006

GA # 828 SC # 96015

CLIENT: D.C.S.W./001-041891 SAMPLE: #1 ASH

DATA FILE: >5A84A::D5

REPORTED: 5/11/91 0:42

CION FACT: 100.0

EPA METHOD 8060 PHTHALATES IN - SOILS

CAS No.	PARAMETER	concentration (ug/kg)	* MDL	
17-81-7 5-68-7	BIS(2-ETHYLHEXYL) PHTHALATE BUTYLBENZYLPHTHALATE	0.0	0.50 0.50	
4-74-2 4-66-2	DI-n-BUTYLPHTHALATE	0.0	1.00	
.31-11-3	DIETHYLPHTHALATE DIHETHYLPHTHALATE	0.0	1.00 0.50	٠.
-17-84-0	DI-n-OCTYL PHTHALATE	0.0	0.50	

IDL METHOD DETECTION LIMIT - IS actually MDL x DILUTION FACTOR. CONCENTRATION OF 0.0 = BMDL (BELOW METHOD DETECTION LIMIT)

YALE A. SOHNSON - Chemist

וצישוישט ושחק לעוון וכלו-סו-אטו 14:25 SPECTRUM-LABORATORIES / FT LAUD C

BEST AVAILABLE COPY

SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue (31404) * P.O. Box 13548 * Savannan, GA 31416-0548 * (912) 354-7858 * Fax (912) 352-0165

LOG NO: \$1-32797

Received: 19 APR 91

Ms. Melanie Thum

Spectrum

4550 M. Dixie Hwy.

Ft. Lauderdale, FL 3334

Project: D.C.S.W.

REPORT OF RESULTS

Page 1

			-
	SAMPLE DESCRIPTION , SOLI	D OR SEMISOLID SAMPLES	Sampled by
	001-041891 (4/11/91)		Client
ARAMETER	· · · · · · · · · · · · · · · · · · ·	32797-1	
	Turans (5280)		
Tetra CDI), ug/kg [†]	·<5.9	
Tetra CDE	, ug/kg	<5.9	
Penta CDI), ug/kg	<5.9	
Penta CDI	² , ug/k g	ج. ت ې	
Hexa CDD,		10.0	
Hexa CDF,	ug/kg	· <\$. 0	
Repts CDI	· • • •	<5.9	
Ido eader	, ug/kg	<5.9	
octa Con,	- · ·	<5.9	
Jota CDF		<5.9	
arcent 80	olide, ¥	82	

Attachment 8



November 6, 1991

RECEIVED NOV 1 2 1991

Division of Air Resources Management

Mr. Clair Fancy Division of Air Resources Management Florida Department of Environmental Regulation 2600 Blair Stone Road Tallahassee, Florida 32399

Re: Proposed Utilization of Incinerator Ash as Raw Material

Tarmac Florida, Inc. Cement Plant

Dade County, Florida

Dear Mr. Fancy:

In response to Bruce Mitchell's request, I am enclosing an analysis of trace elements and other pollutants for the Dade County incinerator ash. This is the ash which Tarmac will use in the test burn. Please review this information and advise if we can proceed with the public notice.

Sincerely, Owid a. 3.4

David A. Buff, M.E., P.E.

Principal Engineer

cc: Al Townsend
Jim Alves
Bruce Mitchell



Laboratories, Inc.

FORT LAUDERDALE • SAVANNAH

CLIENT DCSW
SAMPLE LOCATION #1 ASH
SAMPLE NUMBER 001-041891
DATE RECEIVED 04/18/91
DATE SAMPLED 04/11/91
SAMPLE TYPE SOIL

SUBMITTER RALPH TARDIF

DATE REPORTED: 05/15/91

EPA: # FLO95

1.

FL DRINKING WATER: # 86144 FL ENVIRONMENTAL: # E86006

GEORGIA: # 828

SOUTH CAROLINA: # 96015

TEST RESULTS

·					
TCLP EXTRACTION	- METALS	•	05/01/91	L	
CADMIUM TCLP	SM 304		0.03	MG/L	
CHROMIUM TCLP	SM 304		0.04	MG/L	
LEAD TCLP	SM 303A		0.24	MG/L	
MERCURY TCLP	SM 303F		<0.0002	MG/L	
ARSENIC TCLP	SM 304		0.006	MG/L	
COPPER TCLP	EPA 220.1		0.32	MG/L	
CADMIUM, T	3050/7131	•	30.00	MG/KG	D.W.
CHROMIUM, T	3050/7191		54.0	MG/KG	D.W.
LEAD, T	3050/7421		1500.0	MG/KG	D.W.
MERCURY, T	7471		<0.1	MG/KG	D.W.
ARSENIC, T	3050/7060		25.00	MG/KG	D.W.
IRON,T	3050/7380		27300	MG/KG	D.W.
COPPER, T	3050/7210		5800.0	MG/KG	D.W.
	3050/7520		86.0	MG/KG	D.W.
VANADIUM, T	3050/7911		38	MG/KG	D.W.
	3050/7091		0.9	MG/KG	D.W.
IRON TCLP			0.05	MG/L	
NICKEL TCLP			<0.03	MG/L	
VANADIUM TCLP		~ .	0.55	MG/L	
BERYLLIUM TCLP			<0.002	MG/L	
CHLORIDE IN SOL	ID SAMPLE		7000	MG/KG	
EPA 8280			NEGATIVE	Ξ	
EPA 8100		·	POSITIVE	Ξ	
EPA 8060		· ·	NEGATIVE	Ξ	
DIOXIN	EPA 625		<0.1	UG/L	

IF YOU HAVE ANY QUESTIONS PLEASE CONTACT ME.

DONALD S. MCCORQUODALE OR. PH.D.

MICROBIOLOGIST



Laboratories, Inc.

FORT LAUDERDALE . SAVANNAH

-CERTIFICATIONS-

EPA: #FLO95

FL DRINKING WATER: #86144
FL ENVIRONMENTAL: #E86006

GA # 828

SC # 96015

CLIENT: D.C.S.W./001-041891

SAMPLE: #1 ASH

DATA FILE: >5A84A::D5

ATE ANALYZED: 5/11/91 0:42

UTION FACTOR: 100.00

EPA METHOD 8100

83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 191-24-2 207-08-9 218-01-9 53-70-32 206-44-0 86-73-7 193-39-5 91-20-3 85-01-8	PARAMETER ACENAPHTHENE ACENAPHTHYLENE ANTHRACENE BENZO(a) ANTHRACENE BENZO(a) PYRENE BENZO(b) FLUORANTHENE BENZO(ghi) PERYLENE BENZO(k) FLUORANTHENE CHRYSENE DIBENZO(ah) ANTHRACENE FLUORANTHENE FLUORANTHENE FLUORENE INDENO(1,2,3-cd) PYRENE NAPHTHALENE PHENANTHRENE	CONCENTRATION (ug/kg) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	* MDL (ug/kg) 0.50 0.50 1.00 1.00 2.00 1.25 2.50 1.25 2.50 1.00 0.50 0.50
129-00-0		0.0	1.00
	MISCELLANEOUS AND	ALYTES	
	1-METHYLNAPHTHALENE 2-METHYLNAPHTHALENE	0.0	0.50

* MDL METHOD DETECTION LIMIT - Is actually MDL * DILUTION FACTOR.

ØHNSON - Chemist

4550 N. Dixle Hwy., Ft. Lauderdale, Fla. 33334 = Phone: (305) 491-4891 = 630 Indian Street, Savannah, Ga. 31401 • Phone (912) 238-5050



Laboratories, Inc.

FORT LAUDERDALE . SAVANNAH

-CERTIFICATIONS-

EPA: # FLO95

FL DRINKING WATER: #86144

FL ENVIRONMENTAL: #E86006

GA # 828 SC # 96015

CLIENT: D.C.S.W./001-041891

SAMPLE: #1 ASH
DATA FILE: >5A84A::D5

TE REPORTED: 5/11/91 0:42

LUTION FACT: 100.0

EPA METHOD 8060 PHTHALATES IN - SOILS

CAS NO. PARAMETE		CONCENTRATION (ug/kg)	* MDL (ug/kg)
	THYLHEXYL) PHTHALATE YZYLPHTHALATE	0.0	0.50 0.50
84-74-2 DI-n-BUT	YLPHTHALATE PHTHALATE	0.0	1.00
	PHTHALATE	0.0	0.50

MDL METHOD DETECTION LIMIT - IS actually MDL x DILUTION FACTOR. A CONCENTRATION OF 0.0 = BMDL (BELOW METHOD DETECTION LIMIT)

•

JOHNSON - Chemist

SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue (31404) • P.O. Box 13548 • Savannah, GA 31415-0548 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: \$1-32797

Received: 19 APR 91

Ms. Melanie Thum Spectrum 4550 N. Dixie Hwy. Ft. Lauderdale, Fb 3334

Project: D.C.S.W.

REPORT OF RESULTS

Page 1

	·	-
	PLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
32797-1 001-	041891 (4/11/91)	Client
PARAMETER	32797-1	,
Cl-Dioxin/Furans	· (8280)	,
Tetra CDD, ug/k	kg '	
Tetra CDF, ug/k	<5.9	
Penta CDD, ug/k	¢ 9 < 5. 9	•
Penta CDF, ug/k	¢. c>	
Haxa CDD, ug/kg	10.0	
Hexa CDF, ug/kg	₹ 5. 9	
Hepta CDD, ug/k		
Hepta CDF, ug/k	<8 - <5.9	
Octa CDD, ug/kg	-	
Octa CDF, ug/kg	₹ <5.9	
Percent Solids,	¥ 82	

Attachment 9



KBN ENGINEERING AND APPLIED SCIENCES, INC.

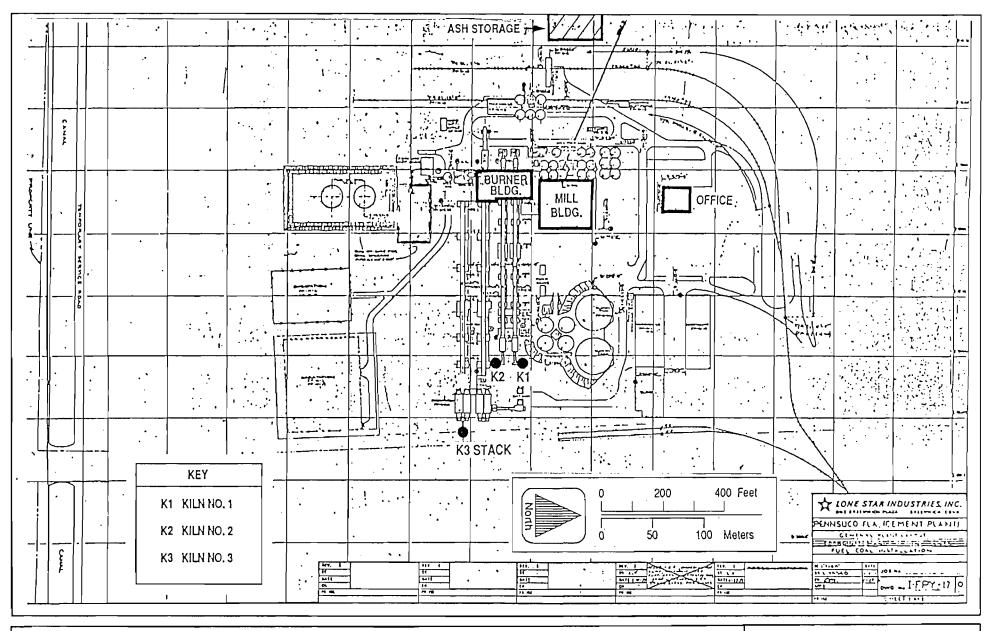
Jim Alves

1034 Northwest 57th Street Gainesville, Florida 32605 FAX: 904/332-4189 Telephone: 904/331-9000

Letter of Transmittal

Date:11/15/9	! <u>[</u>	
Project No.: 90086		Dr.
To: Bruce Mi		RECEIVED
		NOV 1 8 1991
	· ·	
Re: Tarmac In	cinerator Ash Test	Resources Management
The following items are be	eing sent to you: 📜 with this	s letter 🗅 under separate cover
<u>Copies</u>		escription
These are transmitted:		
□ As requested		□ For approval
☐ For review		X For your information
□ For review and	comment	0
Remarks: Attached	l is the site may	p for Tarmer which identifies
the location	a where the OCRR	ash will be stored,
Please C	all it you have a	any questions
Signed: $ \mathcal{Q} \cdot \mathcal{Q} \cdot $	Buff	
Copy to: Tom T:44 Al Towns	le end	KBN6/LOT. 1- 04/08/9

Best Available Copy



PLOT PLAN OF TARMAC FACILITY (DCRR ASH STORAGE AREA INDICATED)



Attachment 10 Available Upon Request



KBN ENGINEERING AND APPLIED SCIENCES, INC.

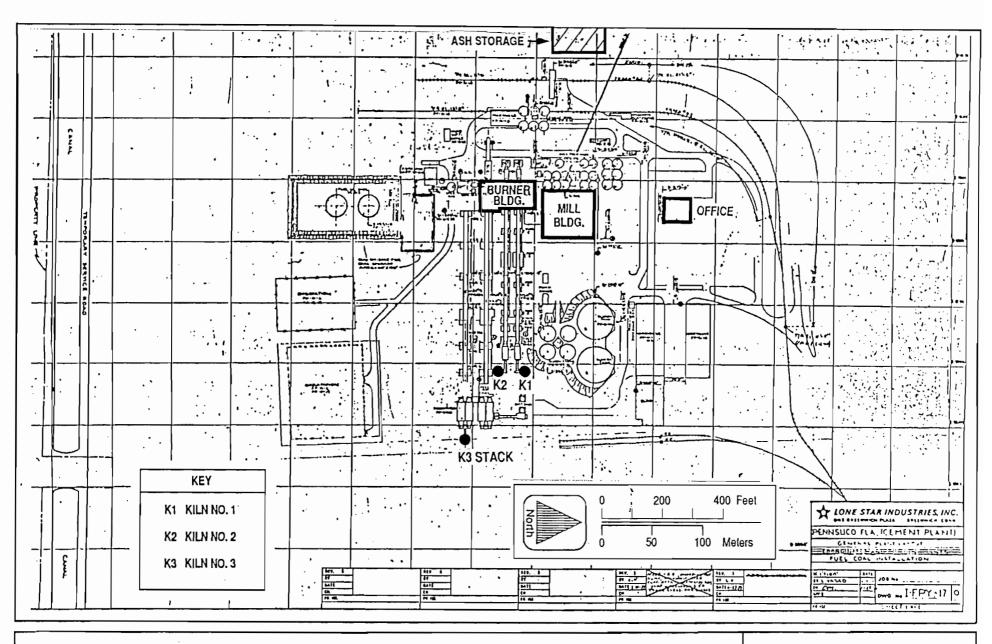
Jim Alves

1034 Northwest 57th Street Gainesville, Florida 32605 FAX: 904/332-4189 Telephone: 904/331-9000

Letter of Transmittal

Date:11 / 15 / 9 1	<u> </u>
Project No.: 90086	Pro.
To: Bruce Mitchell	RECEIVED
Re: Tarmac Incinerator As	Resources Me
The following items are being sent to you:	with this letter 👊 under separate cover
Copies 1 Tarmoc Site 1	<u>Description</u> Μαρ
These are transmitted:	
☐ As requested ☐ For review	☐ For approval ★ For your information
For review and comment Remarks: Attached is the six	te map for Tarmor which identifies
the location where the	
Please call if you	have any questions
Signed: D. a. Buff	· · · · · · · · · · · · · · · · · · ·
Copy to: Tom Tittle Al Townsend	KBN6/LOT.1-F 04/06/90

Best Available Copy



PLOT PLAN OF TARMAC FACILITY (DCRR ASH STORAGE AREA INDICATED)



Best Available Copy



AIRBILL PACKAGE TRACKING NUMBER

MULTERBEER

3028820144

	Date 11:117-91			RECIP	IENT'S CO)PY
From (Your Name) Please Print	Your Pho	ne Number (Very Important)	To (Recipient's Na	ame) Please Print		Recipient's Phone Number (Very Iniportant)
David A. Buff Company	· (· · ¿4 .	Department/Floor No.	Bruce Company	Mitchell		(954) AB8-13/1/ Department/Floor No.
Street Address	A Was I CA P .		Fig.	Dopt. Of E71.	Boxes or P.O. Zip Codes.)	
1.1034 Blu ATTO ST			2600	Blair Stone	Ross, Soc	m 338
City	State ZIP R	equired	City .		State	ZIP Required
GARING SELECTION	r 3	$t = \tau \cdot t_{\lambda}$	Talle	bessee,	FI.	32399-2400
YOUR INTERNAL BILLING REFERENCE INFORMATION 90086	YOUR INTERNAL BILLING REFERENCE INFORMATION (First 24 characters will appear on invoice.) IF HOLD FOR PICK-UP, Print FEDEX Address Here Street					
PAYMENT 1 Bill Sender 2 Bill Recipient's Fe	edEx Acci. No. 3 Bill 3rd Party FedEx A	ccl. No 4 Bill Credit	Card	City	State	ZIP Required
			是少有			
250,4050	DELIVERY AND SPECIAL HANDLI	NG PACKAGES WEIGHT	¥-314	Emp. No.	Date	Federal Express Use
(Check only one box)	(Check services required)	in Pounds Only	出力从公司	Cash Received		Base Charges
Priority Overnight Standard Overnight (Delivery by next business morning!) (Delivery by next business attempont)	1 HOLD FOR PICK-UP (Fill in Box H)		3376	Return Shipment		
11 YOUR 51 YOUR PACKAGING	2 TOPLIVER WEEKDA	v ``.		☐ Third Party ☐ C	Chg To Del. Ch	g. To Hold Declared Value Charge
16 TO VEDEX LETTER • 56 FEDEX LETTER •	3 (Not available to all locations)			Sireer Address		
12 FEDEX PAK * 52 FEDEX PAK *	4 DANGEROUS GOODS (Extra charge)	1 1	IST PER	City	State	Zip Office 1
		Total Total		.	Sidic	Other 2
13 FEDEX BOX 53 FEDEX BOX	5	,	THE STATE OF	Received By:		
14 FEDEX TUBE 54 FEDEX TUBE	6 DRY ICE Lbs	NAME AND ADDRESS OF THE PARTY O	the games of	X		Total Charges
Economy Two-Day iDelivery by second business day!! Government Overnight iRedicand to authorized users only!	7 OTHER SPECIAL SERVICE	DIM SHIPMENT (Chai	ģeable Weight)	Date/Time Received	FedEx Employee Nu	umber
30 ECONOMY 46 GOVT	8		ibs			REVISION DATE 4/91 12/01 1/27/204 FXEM 6/91 FORMAT #082
41 GOVT PACKAGE	9 SATURDAY PICK-UP (Extra charge)	1				
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(Confirmed reservation required) † Delivery commitment may be later in some areas **Cast for detivery schedule.	12 HOLIDAY OELIVERY (It offered) (Extra charge)	2 U) On-Call Stop	4 □ B S C 5 tD Station	FedEx Emp. No.	0	Date/Time USA



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400 Lawton Chiles, Governor Carol M. Browner, Secretary

FAX TRANSMITTAL SHEET

DATE: (1-14-91
NAME(S): Mr. Gregg Worley
PHONE: 404-347-2130
TOTAL NUMBER OF PAGES, INCLUDING COVER PAGE:

FROM: Bruce Mitchell
DEPARTMENT: FUER/ DARM/BAR
OFFICE PHONE: 904-488-1344 FAX PHONE: 904-922-6979
SENDER: 3 augustion
COMMENTS: Tarmac - suplementing information
(ash analysis)



RECEIVED

November 6, 1991

NOV 0 8 1991

Division of Air Resources Management

Mr. Clair Fancy
Division of Air Resources Management
Florida Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399

Re:

Proposed Utilization of Incinerator Ash as Raw Material

Tarmac Florida, Inc. Cement Plant

Dade County, Florida

Dear Mr. Fancy:

In response to Bruce Mitchell's request, I am enclosing an analysis of trace elements and other pollutants for the Dade County incinerator ash. This is the ash which Tarmac will use in the test burn. Please review this information and advise if we can proceed with the public notice.

Sincerely, Owid a. 34

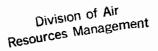
David A. Buff, M.E., P.E.

Principal Engineer

cc: Al Townsend Jim Alves Bruce Mitchell

RECEIVED

NOV 0.8. 1991





CLIENT DCSW
SAMPLE LOCATION #1 ASH
SAMPLE NUMBER 001-041891
DATE RECEIVED 04/18/91
DATE SAMPLED 04/11/91

SAMPLE TYPE SOIL

SUBMITTER RALPH TARDIF

DATE REPORTED: 05/15/91

EPA: # FLO95

FL DRINKING WATER: # 86144
FL ENVIRONMENTAL: # E86006

GEORGIA: # 828

SOUTH CAROLINA: # 96015

TEST RESULTS

TCLP EXTRACTION	- METALS		05/01/93	L	
CADMIUM TCLP	SM 304		0.03	MG/L	
CHROMIUM TCLP	SM 304		0.04	MG/L	
LEAD TCLP	SM 303A		0.24	MG/L	
MERCURY TCLP	SM 303F		<0.0002	MG/L	•
ARSENIC TCLP	SM 304		0.006	MG/L	
COPPER TCLP	EPA 220.1		0.32	MG/L	
CADMIUM, T	3050/7131	•	30.00	MG/KG	D.W.
CHROMIUM, T	3050/7191		54.0	MG/KG	D.W.
LEAD, T	3050/7421	·	1500.0	MG/KG	D.W.
MERCURY, T	7471		<0.1	MG/KG	D.W.
ARSENIC, T	3050/7060		25.00	MG/KG	D.W.
IRON, T	3050/7380	•	27300	MG/KG	D.W.
COPPER, T	3050/7210		5800.0	MG/KG	D.W.
NICKEL, T	3050/7520		86.0	MG/KG	D.W.
VANADIUM,T	3050/7911		38	MG/KG	D.W.
BERYLLIUM, T	3050/7091		0.9	MG/KG	D.W.
IRON TCLP			0.05	MG/L	
NICKEL TCLP			<0.03	MG/L	
VANADIUM TCLP		~ .	0.55	MG/L	
BERYLLIUM TCLP			<0.002	MG/L	
CHLORIDE IN SOI	LID SAMPLE		7000	MG/KG	
EPA 8280			NEGATIV	€ '	
EPA 8100		·	POSITIV	Ε	
EPA 8060			NEGATIV	Ε	
DIOXIN	EPA 625		<0.1	UG/L	

IF YOU HAVE ANY QUESTIONS PLEASE CONTACT ME.

DONALD S. MCCORQUODALE OR. PH.D.

MICROBIOLOGIST



Laboratories, Inc.

-CERTIFICATIONS-

EPA: #FLO95

FL DRINKING WATER: #86144 FL ENVIRONMENTAL: #E86006

GA # 828

SC # 96015

CLIENT: D.C.S.W./001-041891

SAMPLE: #1 ASH

DATA FILE: >5A84A::D5 DATE ANALYZED: 5/11/91 0:42

LUTION FACTOR: 100.00

EPA METHOD 8100

CAS NO.	PARAMETER	CONCENTRATION (ug/kg)	* MDL
208-96-8 120-12-7 56-55-3 50-32-8 205-99-7 191-24-7 207-08-9 218-01-9 53-74-0 86-73-7 193-39-9 91-20-3 85-01-8	ACENAPHTHENE ACENAPHTHYLENE ANTHRACENE BENZO(a) ANTHRACENE BENZO(b) FLUORANTHENE BENZO(ghi) PERYLENE BENZO(k) FLUORANTHENE CHRYSENE CHRYSENE DIBENZO(ah) ANTHRACENE FLUORANTHENE FLUORENE INDENO(1,2,3-cd) PYRENE NAPHTHALENE PHENANTHRENE PYRENE	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 550.0	0.50 0.50 1.00 1.00 2.00 1.25 2.50 1.00 0.50 0.50 1.00
	MISCELLANEOUS ANALYT	ES	
	1—METHYLNAPHTHALENE 2—METHYLNAPHTHALENE	0.0	0.50 0.50

MDL METHOD DETECTION LIMIT - Is actually MDL * DILUTION FACTOR.

JØHNSON - Chemist



Laboratories, inc.

-CERTIFICATIONS-

EPA: # FLO95

FL DRINKING WATER: #86144 FL ENVIRONMENTAL: #E86006

GA # 828

SC # 96015

CLIENT: D.C.S.W./001-041891 SAMPLE: #1 ASH

DATA FILE: >5A84A::D5 TE REPORTED:

5/11/91 0:42

LUTION FACT: 100.0

EPA METHOD 8060 PHTHALATES IN - SOILS

CAS No.	PARAMETER	CONCENTRATION (ug/kg)	* MDL (ug/kg)
117-81-7 85-68-7 84-74-2	BIS(2-ETHYLHEXYL)PHTHALATE BUTYLBENZYLPHTHALATE DI-n-BUTYLPHTHALATE	0.0 0.0 0.0	0.50 0.50 1.00
84-66-2 131-11-3	DIETHYLPHTHALATE	0.0 0.0 0.0	1.00 0.50 0.50

MDL x DILUTION FACTOR. MDL METHOD DETECTION LIMIT - Is actually MDL x DILUTION FAC A CONCENTRATION OF 0.0 = BMDL (BELOW METHOD DETECTION LIMIT)

SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue (31404) • P.O. Box 13548 • Savannah, GA 31415-0548 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: \$1-32797

Received: 19 APR 91

Ms. Melanie Thum Spectrum 4550 N. Dixie Hwy. Ft. Lauderdale, FL 3334

Project: D.C.S.W.

REPORT OF RESULTS

Page 1

, and	toki or teneding
LOG NO SAMPLE DESCRIPTION ; SOL	TO OR SEMISOLID SAMPLES SAMPLED BY
32797-1 001-041891 (4/11/91)	Client
PARAMETER	32797-1
Cl-Dioxin/Furans (8280)	
Tetra CDD, ug/kg	<5.9
Tetra CDF, ug/kg	<5.9
Penta CDD, ug/kg	<5. 9
Penta CDF, ug/kg	<5.9
Hexa CDD, ug/kg	10.0
Hexa CDF, ug/kg	<5.2
Hepta CDD, ug/kg	<5.9
Hepta CDF, ug/kg	< 5.9
Octa CDD, ug/kg	<5.9
Octa CDF, ug/kg	<5.9
Percent Solids, %	82

KBM

FACSIMILE COVER SHEET

DATE: 100 6, 91
TO: Bruce Mitchell
ORGANIZATION: FDER
FROM: OUR BULL TELEPHONE NUMBER:
TOTAL NUMBER OF PAGES: (including cover page)
MESSAGE/INSTRUCTIONS:
cid: Satish Kastun, NER-HEW
John Reese, DER-SW
Chris Shaver, MPS
Jewell Harner, ECA 11-6-91 RAN + PA
Isidone Choldman SED
Bruce DERM
PROJECT NUMBER: 90086 FAX OPERATOR:
() This is the ONLY form of delivery of the transmitted document.
(The original of the transmitted document will be sent by:
() US Mail () Overnight delivery () Other:
Return original to May Lyw
cc: Project File yes no



November 1, 1991

Mr. Clair Fancy
Division of Air Resources Management
Florida Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, FL 32399-2400

e: Proposed Use of Incinerator Ash as Raw Material

Tarmac Florida, Inc., Cement Plant

Dade County, Florida

RECEIVED

NOV 4 1991

Bureau of Air Regulation

Dear Mr. Fancy:

On October 24, 1991, representatives of Tarmac Florida, Inc., met with members of your staff to discuss the use of Dade County Resource Recovery (DCRR) incinerator ash as a raw material at Tarmac's cement plant. The Department's recommendation on this proposed action, as described by Mr. Bruce Mitchell of your staff, was for Tarmac to request a "minor modification" to Tarmac Florida's Kiln 3 current operating permit. The minor modification request would allow Tarmac to conduct a trial burn with the DCRR ash to determine if further permitting requirements apply. This also would inform the public of the test through the required public notice.

The purpose of this letter is to request the "minor modification" permit for Kiln 3 at Tarmac. The DCRR incinerator ash would be brought to Tarmac for incorporation into the raw feed for Kiln 3. A test burn plan is described in Attachment A. The plan describes the testing that will be conducted to determine "baseline" emissions as well as emissions when the DCRR ash is being used.

Although Tarmac does not believe any permit modification is necessary to utilize the DCRR ash, Tarmac is submitting this request in order to proceed with the test burn in an expeditious manner. The \$250 application processing fee is enclosed. Your cooperation in this matter is appreciated.

Sincerely,

David A. Buff, M.E., P.E.

David a. Buff

Principal Engineer

Enclosures

cc: Al Townsend Jim Alves

Bruce Mitchell

Tahnum Goldschmid

Charlie Strong

Project File

S. Brooks, SEDist. P. Hong, DERM Q. Harper, EPA C. Slaver, NPS Q. Reese Yastury

KBN ENGINEERING AND APPLIED SCIENCES, INC.

Attachment A

TARMAC FLORIDA, INC. ASH RECYCLING TEST BURN PLAN

I. INTRODUCTION

Metro-Dade County owns the Dade County Resource Recovery (DCRR) facility located in northern Dade County at N.W. 66th Street and 97th Avenue. The facility is currently operated under a 23-year contract with Montenay Power Corporation. Activities conducted at DCRR encompass municipal solid waste (MSW) processing and recovery of ferrous metal and aluminum, combustion of the resultant fuel, steam production, and subsequent electric generation. A landfill adjacent to DCRR is operated by Metro-Dade County as an ash monofill for disposal of combustion ash.

Tarmac Florida, Inc., is negotiating with Montenay Power to use the resource recovery ash as a substitute raw material in its cement-making process. This proposal could reduce Dade County's reliance on landfills as a method of disposal of ash. Tarmac will be conducting a test burn of bottom and fly ash generated from the Montenay plant to determine if recycling the ash for use in cement is feasible. The test burn will use 3,000 tons of ash, which is approximately the amount of ash produced by DCRR in a 1-week period. This amount of ash will allow the cement plant to operate at full capacity with the DCRR ash during the test burn. The production time to process the ash through the cement plant is 9 days.

Samples of the ash and the final cement product will be taken to verify that use of the ash in cement is environmentally safe. Stack testing will determine if released air emissions comply with state regulated levels. Samples also will be taken when the cement plant is using its normal supply of ash to determine "baseline" conditions.

Tarmac Florida, Inc., is a cement plant located on N.W. 121st Way in Medley. Tarmac is currently using coal ash to produce its cement. It has been using the coal ash for cement production for the past 20 years. At this time, the ash is being transported from northern Florida to the Medley plant by way of rail freight. Presently, Tarmac is buying the ash in bulk from power plants and stockpiling it outside its facility. Tarmac purchases enough ash to last

approximately 6 months. If Tarmac is able to use the ash from DCRR, the transportation costs will be reduced, and the need for long-term stockpiling will be eliminated. Metro-Dade County also would benefit from the program by significantly reducing the amount of space needed to landfill the ash.

The ash produced at DCRR has a high concentration of silica. This silica is combined with the calcium carbonate in limestone to make the primary compound needed to produce portland cement. The cement compound also must contain a sufficient amount of iron and aluminum. The DCRR ash contains less of these compounds than the ash Tarmac historically has been using. To compensate for this deficiency, Tarmac will supplement the ash received from DCRR with iron and with bauxite, which is high in aluminum.

II. TRANSPORTATION AND STORAGE

The ash will be transported by Dade County vehicles or private haulers. The ash will be delivered over a 3-day period. The total round-trip distance is approximately 17 miles. Trucks used to transport the ash will have roll canvas tops to prevent the ash from becoming airborne. The ash delivered by the trucks will be deposited on the ground at Tarmac next to a loading hopper.

III. CEMENT PRODUCTION

Immediately after ash arrives at the Tarmac plant, it is mixed with limestone. This prevents the ash from caking and solidifying. Front-end loaders will transfer the premixed materials from the ground into an existing hopper. This premix is then transported by way of a belt conveyor to raw material storage silos. The ash is then mixed with additional limestone, which is housed in a separate silo, to produce a raw mix. The limestone, which contains 89 percent calcium carbonate, is mixed with the ash to produce the proper alumina, iron, silica, and calcium carbonate content needed to make the cement.

The limestone/ash premix and the limestone from the silo are fed through weigh-belt conveyors to the grinding mill for slurry production. The raw mix is ground with water to produce a slurry. The slurry is stored and blended in large, steel tanks. Next, it is pumped to the feed end of an inclined, coal-fired, rotary kiln. The slurry passes through the kiln, where it is first heated, driving off the moisture, then calcined. The mixture reaches the critical temperature of 2,800°F,

and calcium silicates and calcium aluminates form. These are the fundamental compounds required to produce portland cement clinker.

The hot clinker is cooled to 150°F and conveyed to silos. It is then withdrawn, gypsum is added, and the mix is interground in grinding mills to produce portland cement. This cement is pneumatically pumped to storage silos. From these silos, it is shipped by truck and rail to customers.

The attached flow chart describes the cement production rates. The cement clinkers will contain a total of 3,000 tons of ash during a 7-day period. There will be approximately 13 percent ash, by weight, in the raw mix (slurry); 20 percent ash, by weight, in the clinker; 19 percent ash, by weight, in the cement; and 3.4 percent ash, by weight, in the concrete.

IV. SAMPLING PROTOCOL

Samples will be taken to represent both baseline conditions (current operation) and conditions when DCRR ash is being used. The baseline sampling program will consist of the following:

- 1. Sample of ash currently being used,
- 2. Sample of clinker currently produced by Kiln 3,
- 3. Sample of finished cement product currently produced,
- 4. Sample of Kiln 3 stack emissions, and
- 5. Sample of dust collected in electrostatic precipitator (ESP) serving Kiln 3.

The parameters to be sampled and/or analyzed for each media are presented in Table A-1.

The sampling program for the DCRR incinerator ash test burn will consist of the following:

- 1. Sample of ash, immediately before it is transported to Tarmac;
- 2. Sample of clinker produced by Kiln 3;
- 3. Sample of finished cement product;
- 4. Stack testing of Kiln 3; and
- 5. Sample of Kiln 3 ESP dust.

The initial ash sample will be taken by Dade County Department of Solid Waste Management Environmental Compliance personnel. The clinker, cement, and ESP dust samples will be

collected by Tarmac laboratory personnel while taking quality control samples. All samples will be tested by Spectrum Laboratories, Inc., located in Fort Lauderdale, Florida.

Stack testing will start on day 7 of the test burn. This is to assure that no residue from the previously used coal ash is present. Emissions testing for multimetals will consists of three test runs of two hours in duration. All multimetal samples, including one blank, will be analyzed in accordance with methods of atomic absorption. Emissions will be tested for the parameters shown in Table A-1.

SO₂, NO_x, and CO emissions will not be sampled for the test burn. SO₂ emissions from Kiln 3 are known to be dependent on the sulfur content of the coal burned in the kiln and the SO₃ content of the raw feed (primarily limestone). Four samples of DCRR incineration ash have been analyzed previously for equivalent SO₃ content. The results were as follows: 0.22 percent, 0.76 percent, 0.75 percent, and 1.45 percent, with an average of 0.8 percent. Between 12 and 16 percent of the raw feed mix Tarmac uses is ash, with bauxite and iron oxide as sweeteners. Neither bauxite or iron oxide contains any sulphur. At the anticipated substitution rate of 16 percent of the raw dry feed, the SO₃ content would then be 0.13 percent, which is the same as Tarmac's historic average raw feed SO₃ content. Therefore, the total sulfur content of the raw feed is not expected to change as a result of using DCRR ash, and SO₂ emissions should not be affected.

 NO_x emissions from Kiln 3 are dependent upon the nitrogen content of the coal, the combustion temperature in the kiln, and the amount of excess air in the kiln. Since these parameters will not change as a result of using an alternative ash supply, NO_x emissions are not expected to change as a result of using the DCRR ash.

CO emissions from the kiln are limited because of safety considerations related to the ESP. The use of an alternative ash source will not affect CO emissions.

V. SCHEDULE

A. Baseline sampling - Conducted 15 days after public notice is published

B. Test Burn Sampling

Day 1: Ash is sampled by Dade County. Ash is then transported by truck to Tarmac and is blended with raw feed.

Day 2: Same as day 1.

Day 3: Same as day 1; raw mill grinding has begun.

Day 4: Raw mill is operating.

Day 5: Raw mill is operating, and use of old and new slurry has begun.

Day 6: Old and new slurry is used.

Day 7: New slurry is used containing new ash only. Samples of clinker and ESP dust are obtained. Stack testing will begin on this day.

Day 8: Same as day 7; stack testing is continued as necessary.

Day 9: Same as day 7; stack testing is continued as necessary.

Day 12: Sample of finished cement product is obtained.

Professional Engineer Certification

Name: David A. Buff

Signature: Dow

Florida P.E. Registration No.: 19011

Seal:

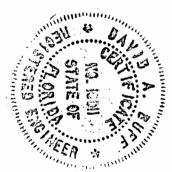


Table A-1. Test Burn Sampling Plan

Metals

A.

I. DCRR Ash; Tarmac Clinker, Cement, and ESP Dust

Arsenic	3050/7060
Barium	3050/7080
Beryllium	3050/7091
Cadmium	3050/7131
Chromium (Total)	3050/7191
Copper	3050/7210
Iron	3050/7380
Lead	3050/7421
Mercury	747 1
Nickel	3050/7520
Silver	3050/7760
Vanadium	3050/7911
Zinc	3050/7950
Nonmetals	
Chloride	9252
Dioxin	625
Nitrogen	SM417-420
	Barium Beryllium Cadmium Chromium (Total) Copper Iron Lead Mercury Nickel Silver Vanadium Zinc Nonmetals Chloride Dioxin

II. Kiln 3 Stack

A. Metals

PAHs

Sulfur

Pthalates

EPA multi-metals train for sample collection, and methods listed above for analysis.

8100

8060

SM304

Method

B. Nonmetals

CO₂/O₂ Dioxin/Furans Hydrogen Chloride PAHs

Particulate Matter
Semi-Volatile Organic Compounds
Stack Gas Flow/Moisture/Temperature
Volatile Organic Compounds

(including benzene)

EPA Method 3

EPA Method 23/EPA 8290

Method 0050

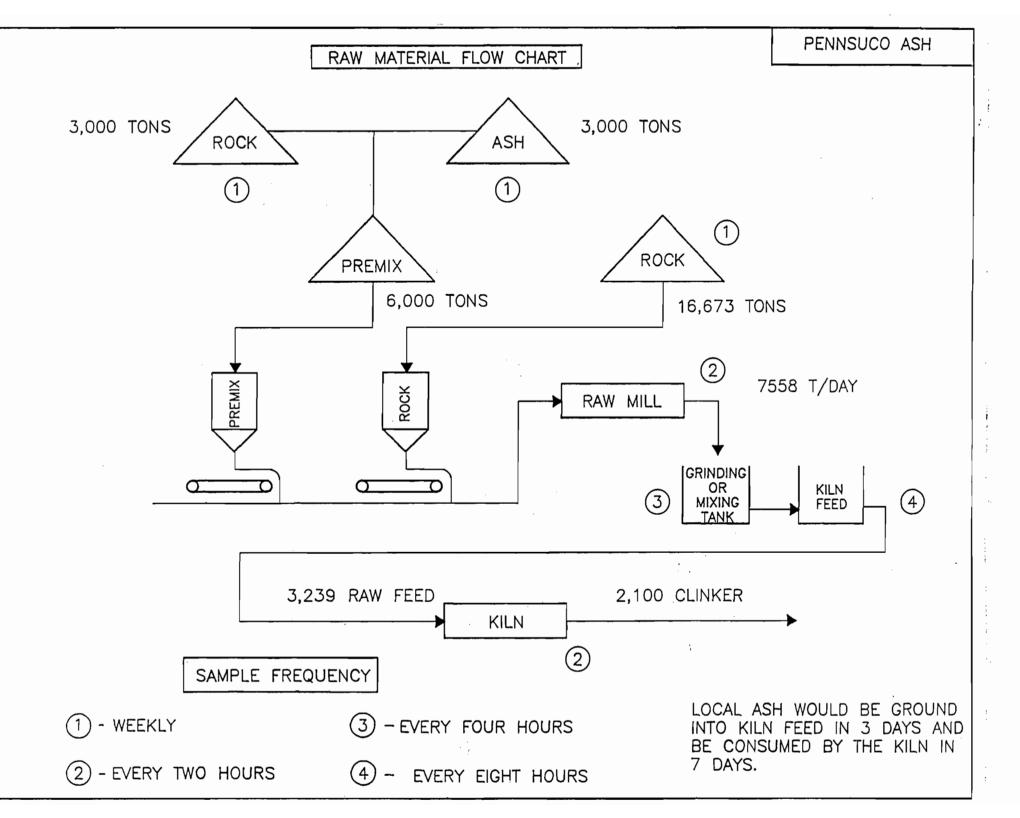
Modified Method 5/8100

Modified Method 5

Modified Method 5/8270

EPA Methods 2, 4, and 5

VOST



B	

Post-It™ brand fax transmittel	
"Clair Fancy	From Nave Buff
co. FDER	CO. KBN Engineering
Dept. 90086	Phone # 33/ 9000
91×1922 6979	Fax# 332 8489

October 18, 1991

Mr. Clair Fancy
Division of Air Resources Management
Florida Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, FL

Re: Proposed Utilization of Incinerator Ash as Raw Material

Tarmac Cement Plant Dade County, Florida

Dear Mr. Fancy:

In May of this year, Metro Dade County Division of Solid Waste informed the Department as to its desire to utilize ash from the Dade County Resources Recovery facility as a raw material in Tarmac Florida's portland cement plant (refer to letter from Tanhum Goldshmid to Steve Smallwood dated May 28, 1991). The Department responded to this inquiry in a letter dated July 1, 1991. The response indicated that a federally enforceable air construction permit would have to be obtained prior to implementing this change, and even prior to a trial run with this material.

I have reviewed Dade County's request to the Department, and Tarmac's most recent operating permit renewal application and subsequent operating permit. Based on this review, it is apparent that the incinerator ash Tarmac desires to utilize is already approved for use. The previous applications submitted by Tarmac have stated a raw material used in the process is "ash/mineral aggregates". Clearly, Dade County incinerator ash would fall under this raw material category. Therefore, I do not believe that a permit modification or amendment is needed in order for Tarmac to use this raw material.

Although Tarmac and I do not believe any FDER approvals are necessary to utilize this ash, Tarmac has asked me to provide you with information to allow a better understanding of the utilization of this ash. Tarmac currently uses combustor ashes as a raw material in the manufacture of Portland cement clinker. The ashes are needed to provide the required alumina, iron and silica components of the raw mix. These components, along with high calcium carbonate limestone, undergo a chemical transformation in the kiln to produce portland cement clinker.

In order to present an absolute worst case estimate of the potential effect of utilizing the Dade County ash in the process, I have taken a very conservative approach. Tarmac currently projects to utilize a limestone-to-ash ratio of 7 to 1 in the process. This equates to a maximum of 14.3% ash in the raw feed. Tarmac currently is permitted to emit 42.6 lb/hr of particulate at a feed rate of 142 tons/hr for kiln 3. It was assumed that Tarmac currently emits no trace metals, and that 14.3% of the particulate emitted from the kiln is ash (same proportion as in the raw feed). This 14.3% of the particulate

Mr. Clair Fancy October 18, 1991 Page 2



emission was then assumed to contain trace metals in the same concentration as indicated in the attached analysis of Dade County ash. The following conservative emission estimates were obtained:

Arsenic- $42.6 \text{ lb/hr} \times 0.143 \times 25 \text{ ppm} = 0.00015 \text{ lb/hr}$

Beryllium- $42.6 \text{ lb/hr} \times 0.143 \times 0.9 \text{ ppm} = 0.0000055 \text{ lb/hr}$

Cadmium- $42.6 \text{ lb/hr} \times 0.143 \times 30 \text{ ppm} = 0.00018 \text{ lb/hr}$

Chromium- $42.6 \text{ lb/hr} \times 0.143 \times 54 \text{ ppm} = 0.00033 \text{ lb/hr}$

Lead- $42.6 \text{ lb/hr} \times 0.143 \times 1,500 \text{ ppm} = 0.0091 \text{ lb/hr}$

Mercury- $42.6 \text{ lb/hr} \times 0.143 \times 0.1 \text{ ppm} = 0.00000061 \text{ lb/hr}$

Chloride- $42.6 \text{ lb/hr} \times 0.143 \times 7,000 \text{ ppm} = 0.043 \text{ lb/hr}$

Copper- $42.6 \text{ lb/hr} \times 0.143 \times 5,800 \text{ ppm} = 0.035 \text{ lb/hr}$

Nickel- $42.6 \text{ lb/hr} \times 0.143 \times 86 \text{ ppm} = 0.00052 \text{ lb/hr}$

Vanadium- $42.6 \text{ lb/hr} \times 0.143 \times 38 \text{ ppm} = 0.00023 \text{ lb/hr}$

Iron- $42.6 \text{ lb/hr} \times 0.143 \times 27,300 \text{ ppm} = 0.17 \text{ lb/hr}$

As shown, these emissions are extremely small.

Pursuant to DER Rule 17-2.210, any "modification" to an existing source must be the subject of an air construction permit. Rule 17-2.100(127) provides that a "modification" is any "change in the method of operation of" an existing source. Utilizing incinerator ash is not a "change" because Tarmac's previous applications identified "ash/mineral aggregates" as the contemplated raw material, and the conditions of Tarmac's permits authorize operation in accordance with the representations made in the applications.

Tarmac desires to move forward with this project. Please advise if this is acceptable, since Tarmac is proceeding with a test burn and stack testing as recommended in your letter.

Sincerely.

David A. Buff, M.E., P.E.

Principal Engineer

cc: Al Townsend



Florida Department of Environmental Regulation

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

Lawton Chiles, Governor Carol M. Browner, Secretary

July 16, 1991

Ms. Delores Smith, Chief Environmental Compliance Metro Dade Solid Waste Management 8675 Northwest 53rd Street Suite 201 Miami, Florida 33166

Dear Ms. Smith:

This is in response to your letter to Hamilton S. Oven, June 6, 1991, about recycling ash from the Resource Recovery Facility into a cement manufacturing process. Recycling of solid waste combustor ash residue is encouraged provided it is done so that the recycling process or resultant products will not cause discharges of pollutants to the environment. Before approval can be given for the proposed test burn, it is necessary to provide a detailed description of the process that will be undertaken, in accordance with Rule 17-702.600, Florida Administrative Code. It is not clear in the June 6 letter exactly what is involved in the process. is assumed that it will involve the use of a cement kiln and a stack test for that facility. Management of the ash from the generation point through the recycling process and testing of the final product to determine effects on the environment should be documented in any operating procedure.

If transportation or processing of the ash has the potential to produce air emissions, appropriate air permits are required.

For your information, a copy of a letter from the Director of the Division of Air Resources Management to TanHum GoldSchmid on the subject, is enclosed. Ms. Delores Smith Page Two July 16, 1991

It is recommended that you consult with the district office in West Palm Beach which has the responsibility for approving the recycling process. Please contact Alex Padva, Waste Program Administrator, and Vic Kamath, P.E., for the Solid Waste Program at (407) 433-2650.

Sincerely,

John A. Reese, Engineer Solid Waste Section

lu a. Reese

JAR/tkm

Enc: Rule 17-702
cc: John Ruddell
Bill Hinkley
Buck Oven
Alex Padva
Vic Kamath
Chris McGuire

Mike Harley



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400 Lawton Chiles, Governor Carol M. Browner, Secretary

July 1, 1991

Tanhum Goldshmid
Assistant Director
Technical Services
Metro Dade Solid Waste Management
Suite 201
8675 Northwest 53rd Street
Miami, Florida 33166

RE: Proposed Recycling Of Incinerator Ash

Dear Mr. Goldshmid:

We have reviewed your letter of May 28, concerning the proposed recycling of incinerator ash residue from the Dade County Resource Recovery Facility. The Division of Air Resources Management does not object to the proposed use of incinerator ash providing the owner or operator of each affected facility applies for and receives all required permits.

Any company which proposes to consider the use of incinerator ash residue in their manufacturing process must apply for and obtain a federally enforceable permit to construct/modify an air pollution source prior to conducting a test burn. The company will need to provide the Department with reasonable assurance that the proposed operation of the source will not emit criteria pollutants, hazardous air pollutants, and toxic air pollutants in sufficient quantities to endanger public health and welfare. Ambient air quality modeling of projected downwind pollutant concentrations will be one element of the required reasonable assurance. The conditions of the construction permit will include limitations on hours of operation, process rates, and emissions; and, a trial burn protocol.

Based on the analytical results that you supplied, the incinerator ash residue does not appear to contain toxic concentrations of leachable arsenic, cadmium, chrome, and lead. The analytical results further indicate that the concentration of total lead (leachable plus fixed) is about 20 times the level that the Department considers toxic. Even at a final mix ratio

Tanhum Goldshmid July 1, 1991 Page Two

of one to seven, the total lead concentration would exceed the lead toxic levels established by the Department. We do not know whether the incinerator ash residue contains toxic concentrations of the remaining metals (barium, selenium, and silver) and organic compounds listed in Table 1 of 40 CFR 261.45, because analytical results were not included. The concentration of the compounds (both total and leachable) listed in Table 1 of 40 CFR 261.45 will be needed. The concentrations of total volatile organic aromatics, volatile organic halocarbons, sulfur, and nitrogen in the incinerator ash residue will be needed by the Department's air permit review engineers when a company applies for the necessary air construction permits.

The permittee may be required to perform emission tests for particulate, arsenic, beryllium, cadmium, chromium, lead, mercury, hydrogen chloride, carbon monoxide, sulfur dioxide, nitrogen oxide and specific volatile organic compounds during the test burn as a condition of the required air construction permit.

Please call Clair Fancy at (904) 488-1344, if you have any questions about the above.

Sincerely,

STEVE SMALLWOOD, P.E

Difector

Division Of Air Resources Management

SS/MH/ht

cc: Clair Fancy, FDER
 Barry Andrews, FDER
 Don Ehlenbeck, FDER
 Scott Benyon, FDER SE FL District
 Isadore Goldman, FDER SE FL District
 Carl Pfaffenberger, DERM
 Pat Wong, DERM

Tanhum Goldshmid July 1, 1991 Page Two

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Please call Clair Fancy at (904) 488-1344, if you have any questions about the above.

Sincerely,

STEVE SMALLWOOD, P.E

Director

Division Of Air Resources Management

ss/MH/ht

cc: Clair Fancy, FDER
Barry Andrews, FDER
Don Ehlenbeck, FDER
Scott Benyon, FDER SE FL District
Isadore Goldman, FDER SE FL District
Carl Pfaffenberger, DERM
Pat Wong, DERM



RECEIVED

JUN 1 0 1991

June 6, 1991

Division of Air Resources Management

Mr. Hamilton Oven
P.E. Administrator
Division of Air Resources Management
Florida Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Dear Mr. Oven:

As you are aware, the Dade County Department of Solid Waste Management (DSWM) is currently investigating recycling of ash residue generated from our Resources Recovery Facility. The steps taken by the DSWM to date are characterization of the ash and subsequent formulation of a parameter list for stack testing.

In order to determine the proper quantity and ratio of ash to be utilized in the cement manufacuring process, the DSWM now wishes to proceed with a test (process) run. The process run will be conducted using 3000 tons of ash, which is the minimum quantity required to produce a representative batch of cement. The ash will be incorporated into the cement in approximately a one to seven ratio. Operational and handling information gathered during the process run will be used to finalize standard operating procedures for conducting the run during which the stack test will be conducted to determine air quality effects.

The purpose of this letter is to request permission from FDER to proceed with the above described course of action. The DSWM believes that this would be the most prudent and effective procedure to follow in order to achieve reliable results from the future stack test. The stack test will be performed with the concurrence of all appropriate agencies and in compliance with DER 17-702.

Tarmac?

Sincerely,

Dolores Smith, Chief Environmental Compliance

cc: Alex Padva, DER Bob Johns, DERM

II F206



RECEIVED

JUN 0 7 1991

Division of Air
Resources Management

May 28, 1991

Mr. Steve Smallwood, Director
Division of Air Resources Management
Florida Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Dear Mr. Smallwood:

The Dade County Department of Solid Waste Management (DSWM) is currently investigating recycling of ash residue generated from our Resources Recovery Facility. One possible way to utilize the ash is to incorporate it into cement which would subsequently be used in building materials such as concrete blocks. The Department has conducted preliminary meetings with local companies expressing interest in this idea, along with DERM representatives.

John Glunn of DER has indicated that a trial burn must be conducted prior to utilization of waste materials by an existing facility. Test parameters are determined by the composition of the waste and the potential for generation of secondary pollutants. The DSWM has taken the initiative in characterizing the source material by processing a representative ash sample and having it analyzed for the parameters recommended by DER. The sample was sized to a 3/4-inch diameter and a portion of the ferrous component removed by magnets. The sample was then coned and quartered according to ASTM Standards, and analyzed for metals and various organics (see attached).

The TCLP results indicate that the ash does not contain toxic levels of metals. The concentrations of the five metals with TCLP standards were well below the regulatory level. Based on a comparison of the total quantity of these metals to the TCLP quantity, the leaching potential appears to be minimal.

The presence of total cadmium, chromium, lead and arsenic in quantities above the previous DER guidance levels (BAQM, 1987) for decontamination of soils in asphalt plants does warrant further consideration. The ash will be incorporated into the cement process in approximately a one to seven ratio, however, which will bring the concentration of chromium and arsenic below the guidance level.

The organics analyses indicate no phthalates, dioxins, or furans present in the sample. Napthalene was the only polyaromatic hydrocarbon detected, at a concentration of less than 1 ppm. Based on the fact that organics generally were not detected in the source material, and conditions in the cement rotary kiln (temperature and residence time) which would effectively destroy fugitive organics, we do not feel that further testing of organics is warranted.

The preliminary results are encouraging and do not indicate that incorporation of Resource Recovery ash residue into cement would endanger human health or the environment. The ratio at which the ash will be incorporated into the cement will further minimize environmental impacts. The focus in stack testing should be on the metals which may have a negative impact on air quality. The results of the stack test will be the determining factor in whether this process is acceptable and if modifications in existing air permits will be required at the facilities.

The DSWM intends to strictly comply with criteria listed in DER 17-702.600 for recycling of ash residue. I am confident that we can work together to establish an outstanding program. Utilizing the ash in this manner will help the County to meet its 1994 recycling goal, and reduce the need to site additional ash monofills. I look forward to your concurrence on the stack test parameters.

Sincerely,

Tanhum Goldshmid Assistant Director Technical Services

DS/CD

Attachment

CC: Carl Pfaffenberger, DERM
Pat Wong, DERM
Rick Poley, DERM
John Glunn, DER
Buck Oven, DER
II. F207



Laboratories, Inc.

FORT ! AUDERDALE . SAVANNAL

CLIENT	DCSW
SAMPLE LOCATION	#1 ASH
SAMPLE NUMBER	001-041891
DATE RECEIVED	04/18/91
DÁTE SAMPLED	04/11/91
SAMPLE TYPE	SOIL
SUBMITTER	RALPH TARDIF

DATE REPORTED: 05/15/91
EPA: # FL095
FL DRINKING WATER: # 86144
FL ENVIRONMENTAL: # E86006
GEORGIA: # 828
SOUTH CAROLINA: # 96015

TEST RESULTS

TCLP EXTRACTION	N - METALS		05/01/93	ľ	
CADMIUM TCLP	SM 304		0.03	MG/L	
CHROMIUM TCLP	SM 304	•	0.04	MG/L	
LEAD TCLP	SM 303A		0.24	MG/L	
MERCURY TCLP	SM 303F		<0.0002	MG/L	
ARSENIC TCLP	SM 304		0.006	MG/L	
COPPER TCLP	EPA 220.1		0.32	MG/L	
CADMIUM, T	3050/7131		30.00	MG/KG	D.W.
CHROMIUM, T	3050/7191		54.0	MG/KG	D.W.
LEAD, T	3050/7421		1500.0	MG/KG	D.W.
MERCURY, T	7471		<0.1	MG/KG	D.W.
ARSENIC, T	3050/7060		25.00	MG/KG	D.W.
IRON, T	3050/7380		27300	MG/KG	D.W.
COPPER, T	3050/7210		5800.0	MG/KG	D.W.
NICKEL, T	3050/7520		86.0	MG/KG	
VANADIUM, T	3050/7911		38	MG/KG	
BERYLLIUM, T	3050/7091		0.9	MG/KG	D.W.
IRON TCLP			0.05	MG/L	
NICKEL TCLP		•	<0.03	\mathtt{MG}/\mathtt{L}	
VANADIUM TCLP			0.55	MG/L	
BERYLLIUM TCLP			<0.002	MG/L	
CHLORIDE IN SOI	LID SAMPLE		7000	MG/KG	
EPA 8280		•	NEGATIVE	2	
EPA 8100		·	POSITIVE	2	
EPA 8060			NEGATIVE	Ξ	
DIOXIN	EPA 625		<0.1	UG/L	

IF YOU HAVE ANY QUESTIONS PLEASE CONTACT ME.

DONALD S. MCCORQUODALE OR. PH.D.

MICROBIOLOGIST



Laboratories, Inc.

FORT LAUDERDALE . SAVANNAH

-CERTIFICATIONS-

EPA: #FL095

FL DRINKING WATER: #86144

FL ENVIRONMENTAL: #E86006

GA # 828 SC # 96015

CLIENT: D.C.S.W./001-041891

SAMPLE: #1 ASH

DATA FILE: >5A84A::D5

DATE ANALYZED: 5/11/91 0:42

DILUTION FACTOR: 100.00

EPA METHOD 8100

CAS NO. PARAMETER	CONCENTRATION (ug/kg)	* MDL (ug/kg)
83-32-9 ACENAPHTHENE 208-96-8 ACENAPHTHYLENE 120-12-7 ANTHRACENE 56-55-3 BENZO(a) ANTHRACENE 50-32-8 BENZO(a) PYRENE 205-99-2 BENZO(b) FLUORANTHENE 191-24-2 BENZO(ghi) PERYLENE 207-08-9 BENZO(k) FLUORANTHENE 218-01-9 CHRYSENE 53-70-32 DIBENZO(ah) ANTHRACENE 206-44-0 FLUORANTHENE 86-73-7 FLUORENE 193-39-5 INDENO(1,2,3-cd) PYRENE 91-20-3 NAPHTHALENE 85-01-8 PHENANTHRENE 129-00-0 PYRENE	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.50 0.50 1.00 1.00 2.00 1.25 2.50 1.00 1.00 0.50 0.50 1.00
MISCELLANEOUS ANAI	LYTES	
1-METHYLNAPHTHALENE 2-METHYLNAPHTHALENE	0.0	0.50 0.50

* MDL METHOD DETECTION LIMIT - Is actually MDL * DILUTION FACTOR.

LYLE A. JOHNSON - Chemist



Laboratories, Inc.

FORT LAUDERDALE • SAVANNAH

-CERTIFICATIONS-

EPA: # FL095

FL DRINKING WATER: #86144

FL ENVIRONMENTAL: #E86006

GA # 828 SC. # 96015

CLIENT: D.C.S.W./001-041891

SAMPLE: #1 ASH

DATA FILE: >5A84A::D5

DATE REPORTED: 5/11/91 0:42

DILUTION FACT: 100.0

EPA METHOD 8060 PHTHALATES IN - SOILS

CAS No.	PARAMETER	CONCENTRATION (ug/kg)	* MDL (ug/kg)
117-81-7 85-68-7	BIS (2-ETHYLHEXYL) PHTHALATE BUTYLBENZYLPHTHALATE	0.0	0.50 0.50 1.00
84-74-2 84-66-2 131-11-3	DI-n-BUTYLPHTHALATE DIETHYLPHTHALATE DIMETHYLPHTHALATE	0.0 0.0	1.00 0.50 0.50
117-84-0	DI-n-OCTYL PHTHALATE	0 • 0	0.50

* MDL METHOD DETECTION LIMIT - IS actually MDL x DILUTION FACTOR. A CONCENTRATION OF 0.0 = BMDL (BELOW METHOD DETECTION LIMIT)

LYLE A. SOHNSON - Chemist

Analyte	50-m CP-S11-88	30-m DB-5	3m SP-2250
2,3,7,8-TCDF	25.2	17.8	26.7
2,3,7,8-1000	23.6	17.4	26.7
1,2,3,4-TCD0	24.1	17.3	26.5
1,2,3,4,7-PeCDD	30.0	20.1	28.1
1,2,3,4,7,8-HxCOD	39.5	22.1	30.6
1,2,3,4,6,7,8-HpCDD	57.0	24.1	33.7
OCDD.	ММ	25.6	NM:

^{*}Retention time in min, using temperature programs shown below.

NM = not measured.

Temperature Programs:

CP-511-88

60°C-190°C at 20°/min; 190°-240° at 5°/min.

DB-5 30 m x 0.25 mm Thin film (0.25 um)

170°, 10 min; then at 8°/min to 320°C, hold at 320°C 20 min (until OCDO elutes).

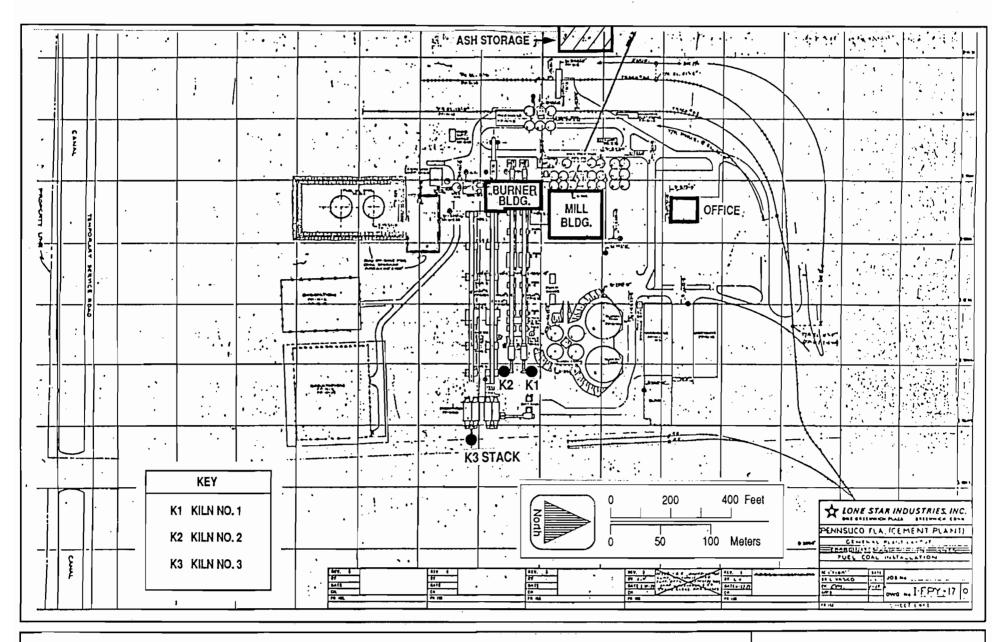
SP-2250

70°-320° at 10°/minute.

Column Manufacturers

CP-S11-88 D8-5,	J and W	Incorporated, Br Scientific;	ridgewater, New Incorporated,		Cordova,
SP-2250	California Supelco,	Incorporated,	Bellefonte	, Penn	sylvania

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PLOT PLAN OF TARMAC FACILITY (DCRR ASH STORAGE AREA INDICATED)





QUESTIONS? CALL BOO-238-5355 TOLL FALE.

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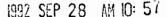
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3. Article Addressed to: Mr. Al Townsend	4a. Art	icle Number 832 538 749
Director of Technical Services Tarmac Florida, Inc. 455 Fairway Drive Deerfield Beach, FL 33441		vice Type stered
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September 25, 1992

Mr. Clair Fancy
Division of Air Resources Management
Florida Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Re: Proposed Retest of Incinerator Ash as Raw Material

Tarmac Florida, Inc., Cement Plant

Dade County, Florida

Dear Mr. Fancy:

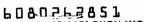
Mr. Al Townsend of Tarmac and I recently discussed with Mr. Bruce Mitchell of your staff the retesting of Tarmac Kiln #3 using Dade County Resources Recovery Facility (DCRRF) incinerator ash as a substitute raw material. As we presented to Mr. Mitchell, EPA Region IV has reviewed the test results from the trial burn tests of January and February 1992 and concluded that the pollutants particulate matter (PM) and mercury (Hg) resulted in an increase in emissions when utilizing the DCRRF ash.

Tarmac believes the increase in PM emissions as reflected in the tests is not a result of the DCRRF ash; Tarmac now utilizes power plant ash in the raw feed and there should be no difference in PM emissions from the kiln. Instead, the difference in PM emissions is a result of the variability of the process and ESP operation. This is demonstrated in the varying PM emissions reflected in the PM compliance tests conducted over the past 10 years for Kiln #3. As a result, Tarmac wishes to retest the kiln for PM when using DCRRF ash to demonstrate no increase in PM emissions under similar operating conditions.

Tarmac is also concerned about Hg emissions in south Florida. As a result, Tarmac has investigated the situation with Dade County. DCRRF ash consists of two components: about 80 percent is bottom ash and 20 percent is fly ash. Each ash stream was analyzed for Hg content. The bottom ash was found to contain virtually no Hg, whereas the fly ash contained measurable quantities of Hg. This result is consistent with combustion theory, which indicates that all the Hg in the solid waste would be vaporized in the boiler and exit the boiler in the flue gases. Little if any Hg would be retained in the bottom ash. As the flue gas temperature decreases downstream of the boiler to less than about 500°F, Hg begins to condense out onto the fly ash particles. PM control with an ESP, which operates at about 400-450°F, would result in some collection of Hg in the ESP ash.

As a result, Tarmac desires to conduct a second trial burn utilizing only DCRRF bottom ash (no ESP ash included) in order to demonstrate that neither PM or Hg emissions increase when utilizing this ash. The retest protocol (Attachment A) is essentially the same as the initial trial burn, except that only PM and Hg will be tested. A description of the Tarmac cement production process was provided in the original test protocol and, therefore, is not repeated in Attachment A.

1031, AIR







10

KBN ENGINEERING AND APPLIED SCIENCES, INC.

1034 N.W. 57th Street Telephone: (904) 331-9000

Gainesville, Florida 32605 FAX: (904) 332-4189

904/488-1344

DABuff/VJP 12034

AM Prior

Mr. Clair Fancy Division of Air Resources Mgmt Florida Dept of Environmental Reg 2600 Blair Stone Road Tallahassee, FL 32399-2400

SENDER: Complete items 1 and/or 2 for additional services. Complete items 3, and 4a & b. Print your name and address on the reverse of this form so the return this card to you. Attach this form to the front of the mailpiece, or on the back is does not permit. Write "Return Receipt Requested" on the mailpiece below the article. The Return Receipt Fee will provide you the signature of the person and the date of delivery.	f space 1. Addressee's Address cle number. 2. Restricted Delivery
3. Article Addressed to: Mr. Al Townsend Director of Technical Services Tarmac Florida, Inc. 455 Fairway Drive Deerfield Beach, FL 33441	4a. Article Number P 062 922 023 4b. Service Type □ Registered □ Insured
5. Signature (Addressee) 6. Signature (Agent)	Addressee's Address (Only if requested and fee is paid)
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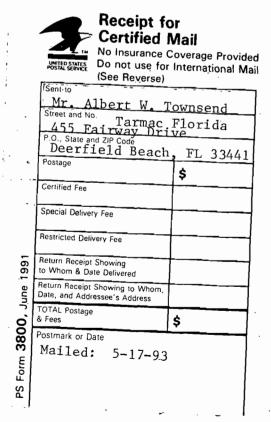


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SENDER: • Complete items 1 and/or 2 for additional services. • Complete items 3, and 4a & b. • Print your name and address on the reverse of this form so tha return this card to you. • Agach this form to the front of the mailpiece, or on the back if does not permit. • Write "Return Receipt Requested" on the mailpiece below the article. • The Return Receipt will show to whom the article was delivered and delivered. 3. Article Addressed to: Mr. Albert W. Townsend Director of Technical Services Tarmac Florida, Inc. 455 Fairway Drive Deerfield Beach, FL 33441	space 1. \square Addressee's Address
5. Signature (Addressee) 6. Signature (Agent) PS Form 3811/ December 1991 *U.S. GPO: 1992—323	8. Addressee's Address (Only if requested and fee is paid) 402 DOMESTIC RETURN RECEIPT

P 230 524 301



Check Sheet

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_	Determination:
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The Miami Herald

PUBLISHED DAILY MIAMI — DADE — FLORIDA

STATE OF FLORIDA COUNTY OF DADE:

Before the undersigned authority personally appeared

ANN MARTULA

who on oath says that he/she is

CUSTODIAN OF RECORDS

of The Miami Herald, a daily newspaper published at Miami in Dade County, Florida; that the attached copy of advertisement was published in said newspaper in the issues of

DECEMBER 3, 1991

Affiant further says that the said The Miami Herald is a newspaper published at Miami, in the said Dade County, Florida and that the said newspaper has heretofore been continuously published in said Dade County, Florida, each day and has been entered as second class mail matter at the post office in Miami, in said Dade County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that he has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

Sworn to and subscribed before me this....3xd.

day of December A.D. 1991

My commission expires.

NOTARY PUSILE STATE OF FLORIDA MY COMMISSION EXP. MAR. 18, 1905 BONDED THRU GENERAL 185. UND.

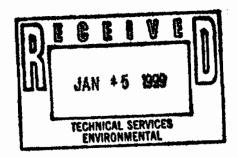
Table A. Summary of SO2/NOx Emissions From Kiln No. 2, Tarmac Florida

tack Flo	St	/el (%)	Oxygen Lev		nissions	Dioxide En	Vitrogen	1		issions	Dioxide Emi	Sulfur [Heat					
dsc	acfm	Kiln	Stack	lb/ton clinker	lb/ton kiln feed	lb/MMBtu	lb/hr	. ppm	lb/ton clinker	lb/ton kiln feed	lb/MMBtu	lb/hr	ppm		Input (a) (MMBtu/hr)	Coal Usage (TPH)	Clinker (TPH)	Kiln Feed (TPH)	Run#	Date
59,85	86,415			18.69	11.37	3.93	450	1,187	0.015	0.009	0.003	0.37	0.63	1.86	114.50	4.58	24.08	39.58	1	04/26/94
59,85	91,144			17.73	10.79	3.73	427	1,092	0.015	0.009	0.003	0.36	0.61	1.86	114.50	4.58	24.08	39.58	2	04/26/94
57,82	86,816			17.52	10.66	3.69	422	1,117	0.015	0.009	0.003	0.35	0.61	1.86	114.50	4.58	24.08	39.58	3	04/26/94
59,87	93,138			10.81	6.65	1.91	255	610	1.370	0.843	0.243	32.33	54.18	1.75	133.25	5.33	23.6	38.33	1	06/28/94
58,28	90,738			11.91	7.33	2.11	281	669	2.659	1.637	0.471	62.76	108.2	1.75	133.25	5.33	23.6	38.33	2	06/28/94
58,64	92,633			11.95	7.36	2.12	282	655	2.181	1.343	0.386	51.46	88.07	1.75	133.25	5.33	23.6	38.33	3	06/28/94
58,93				13.83	8.63	2.45	332	787						1.75	135.25	5.41	24.0	38.46	4	06/28/94
59,28				10.25	6.40	1.82	246	579						1.75	135.25	5.41	24.0	38.46	5	06/28/94
50,96	78,548		9.4	12.28	7.23	1.93	237	648	0.261	0.153	0.041	5.03	9.90	0.85	122.50	4.90	19.3	32.8	1	08/31/94
51,98	80,268		9.4	10.10	5.95	1.59	195	514	0.564	0.332	0.089	10.89	20.60	0.85	122.50	4.90	19.3	32.8	2	08/31/94
50,96	78,548		9.4	9.43	5.55	1.49	182	488	0.402	0.237	0.063	7.76	15.00	0.85	122.50	4.90	19.3	32.8	3	08/31/94
58,4	115,146		9.72	12.79	8.12	2.48	316	754	0.104	0.066	0.020	2.56	4.39	0.76		5.10	24.7	38.9	1	10/27/94
57,53	115,912		9.76	12.76	8.37	2.42	333	809	0.075	0.049	0.014	1.96	3.43	0.76		5.50	26.1	39.8	3	10/28/94
55,09	113,480		9.28	8.24	5.40	1.56	215	544	0.642	0.421	0.122	16.75	30.52	0.76	137.50	5.50	26.1	39.8	4	10/28/94
57,58	91,761		10.3	10.19	6.29	2.15	255	618	0.037	0.023	0.008	0.92	1.61	0.88		4.75	25.0	40.5	1	01/03/95
56,30	88,956		10.3	15.93	9.84	3.35	398	988	0.028	0.017	0.006	0.7	1.26	0.88		4.75	25.0	40.5	2	01/03/95
56,00	89,294		9.76	14.16	8.74	2.98	354	883	0.003	0.002	0.001	0.07	1.23	0.88	118.75	4.75	25.0	40.5	3	01/03/95
52,18	105,551		10.7	14.45	9.01	2.62	347	923	0.176	0.110	0.032	4.23		0.67	132.50	5.30	24.0	38.5	1	05/31/95
51,01	105,918		11.1	13.84	8.62	2.51	332	883	0.303	0.189	0.055	7.26		0.67	132.25	5.29	24.0	38.5	2	05/31/95
53,96	107,367		11.2	13.40	8.35	2.43	322	821	0.075	0.047	0.014	1.81		0.67	132.25	5.29	24.0	38.5	3	05/31/95
59,06	113,178		11.0	14.81	8.80	2.42	308	728	0.044	0.026	0.007	0.91	1.51		127.50	5.10	20.8	35.0	1	12/11/95
60,16	120,039		11.3	17.07	10.14	2.78	355	824	0.044	0.026	0.007	0.91	1.53		127.50	5.10	20.8	35.0	2	12/11/95
59,89	118,322		10.9	21.54	12.80	3.51	448	1,044	0.000	0.000	0.000	0.00	0.00		127.50	5.10	20.8	35.0	3	12/11/95
50,96	78,548		9.28	8.24	5.40	1.49	182	488	0.000	0.000	0.000	0.00	0.00	nimum =	Mir					
56,68	98,246		10.23	13.64	8.37	2.52	317	790	0.429	0.264	0.076	9.97	19.07	verage =						
60,16	120,039		11.30	21.54	12.80	3.93	450	1,187	2.659	1.637	0.471	62.76	108.16	ximum =	Ma					

⁽A) Assumes 12,500 Btu/lb coal. NA = Not available

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ADDRESS completed or	3. Article Addressed to: O Waas, Env. Mgs. Dur. Scott O Waas, Env. Mgs. Jarmac arnerica, Inc 455 Journay Drive Plerfuld Bch, Fl 33441	4b. Service Registere Express I	569 Type od Mail ceipt for Merchalidise	Cop Cop	ou for using Return Rec
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MIAMI DAILY BUSINESS REVIEW

Published Daily except Saturday, Sunday and Legal Holidays Miami, Dade County, Florida.

STATE OF FLORIDA COUNTY OF DADE:

Before the undersigned authority personally appeared Octelma V. Ferbeyre, who on oath says that she is the Supervisor, Legal Notices of the Miami Daily Business Review I/I/a Miami Review, a daily (except Saturday, Sunday and Legal Holidays) newspaper, published at Miami in Dade County, Florida; that the attached copy of advertisement, being a Legal Advertisement of Notice in the matter of

NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT MODIFICATION DEP FILE NO. 0250020-007-AC (PSD-FL-142A) TARMAC AMERICA INC.

in the	XXXXX	Court
was published in	said newspaper in t	he issues of

Affiant further says that the said Miami Daily Business Review is a newspaper published at Miami in said Dade County, Florida, and that the said newspaper has heretofore been continuously published in said Dade County, Florida, each day (except Saturday, Sunday and Legal Holidays) and has been entered as second class mail matter at the post office in Miami in said Dade County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that she has neither paid nor promised any person, firm or corporation any discount, rebate, commission of refund for the purpose of securing this advertisement for publication in the said newspaper.

Sworn to and subscribed before me this

13

(a) A (24.4 A) 7

(SEAL)

Octelma V. Ferbeyre person

OFFICIAL NOTARY SEAL
MONTH OFFICIAL NOTARY SEAL
MARIELA ROMERO
COMMISSION NUMBER
CC777419
MY COMMISSION EXPRES
SEPT 22,2002

PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT MODIFICATION STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION DEP FILE NO. 0250020-007-AC (PSD-FL-142A) TARMAC AMERICA INC. PORTLAND CEMENT MANUFACTURING FACILITY MODIFICATION OF KILN NO. 2 COAL CONVERSION PROJECT

The Department of Environmental Protection (Department) gives notice of its intent to issue an air construction permit modification to Tarmac America Inc. The permit is to modify the previously approved natural gas to coal conversion project for Kiln No. 2 at Tarmac's portland cement manufacturing facility in Medley, Miami-Dade County. A Best Available Control Technology (BACT) determination was not required pursuant to Rule 62-212.400, F.A.C. The applicant's name and address are Tarmac America, Inc. 455 Fairway Drive, Deerfield Beach, Florida 33441.

MIAM!-DADE COUNTY

The modification includes installation of a new coal bin, baghouse, and ducting to support indirect firing to reduce nitrogen oxides emissions from Kiln No. 2. Kiln No. 2 already burns coal through direct firing and Tarmac is required by an agreement with the Miami-Dade Department of Environmental Resources Management to implement this project modification.

The Department will issue the FINAL permit modification with the attached conditions unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions.

The Department will accept written comments concerning the proposed permit issuance action for a period of 14 (fourteen) days from the date of publication of "Public Notice of Intent to Issue Air Construction Permit Modification." Written comments should be provided to the Department's Bureau of Air Regulation at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, FL 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in the proposed agency action, the Department shall revise the proposed permit and require, if applicable, another Public Notice.

The Department will issue the FINAL permit modification with the attached conditions unless a timely petition for an administrative hearing is filed pursuant to Sections 120.569 and 120.57 F.S., before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below. Mediation is not available in this proceed-

ing A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida, 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. Under Section 120.60(3), however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57 F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner, the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of how and when petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief; and (f) A demand for relief.

A petition that does not dispute the material facts upon which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by rule 28-106.301

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

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

Department of Environmental Miami-Dade Department of Protection Environmental Resources Mgt. Bureau of Air Regulation

Air Quality Division 111 S. Magnolia Drive, Suite 4 33 SW Second Avenue, Suite 900 Tallahassee, Florida, 32301 Miami, Florida 33130-1540 Telephone: 850/488-0114 Telephone: 305/372-6925 Fax: 305/372-6954

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

The complete project file includes the application, Draft Permit Modification, and the information submitted by the responsible official, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Administrator, New Resource Review Section at 111 South Magnolia Drive, Suite 4, Tallahassee, Florida 32301, or call 850/488-0114, for additional information.

Fax: 850/922-6979

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PS Form 3811, December 1994

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PS Form 3811 , October 1990 ± U.S. GPO: 1990–273-	861 D	OMESTIC RETURN RECEIPT

P 832 538 754 Certified Mail Receipt No Insurance Coverage Provided Do not use for International Mail (See Reverse) Mr. Al Townsend, Tarmac Street & No. 455 Fairway Drive P.O., State & ZIP Code Deerfield Beach, FL 33441 Postage Certified Fee Special Delivery Fee Restricted Delivery Fee Return Receipt Showing to Whom & Date Delivered Return Receipt Showing to Whom, Date, & Address of Delivery TOTAL Postage & Fees \$ Postmark or Date Mailed: 12-20-91 Permit: AC 13-157297 PSD-FL-142

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Department of **Environmental Protection**

Lawton Chiles Governor

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

Virginia B. Wetherell Secretary

August 24, 1995

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

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

Dear Mr. Quaas:

The Department received your July 21 letter on July 25 requesting another extension of the construction permit for the Kiln No. 2 coal conversion (PSD-FL-142). It was also requested that the NO_x emission limit be increased by a factor of four.

Regarding the extension request, the required processing fee would have to be submitted before the Department could consider granting another one. We note that Tarmac stated in a letter dated April 24, 1995, that its operation permit would be ready for submittal by July 24, 1995.

As far as Tarmac's proposed NOx limit is concerned, it is not representative of the Best Available Control Technology required under the Prevention of Significant Deterioration rules. Also, the NOx test results are beyond the range of values for reevaluation set by Tarmac in the Stipulation for Dismissal of Tarmac's 1990 hearing petition.

As you requested, we will meet on August 30 at 1:30 p.m. to hear further input regarding this matter. We believe that the discussion should center on physical or operational changes that may be necessary to meet the NOx limits in Tarmac's present permit. further questions or issues arise before August 30, please call John Reynolds at 904-488-1344.

A. A. Linero, P.E.

Administrator

Sincerely,

New Source Review

CHF/JR/t

P. Comer, OGC E. Anderson, DCDERM

S. Brooks, SED

D. Buff, P.E.

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TARMAC FLORIDA, INC.

P.O. Box 2898 1 3 1990 Hialeah, Florida 33012

DER - BAQM

August 9, 1990

Mr. Clair Fancy, P.E., Chief Bureau of Air Regulation Fla. Dept. of Environmental Regulation Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

RE: Proposed Modification - Kiln No. 2 Coal Conversion DER File No. AC13-169901

Dear Mr. Fancy:

Please find enclosed a copy of the affidavit of publication for the Notice of Intent to Issue Permit for the above referenced project. Should you have any questions please call me at (305)823-8800.

Sincerely,

Scott Quaas

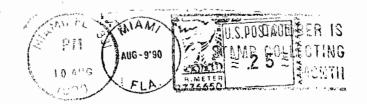
Environmental Specialist

J. Alves - Hopping Boyd Green & Sams

D. Haldman, SERist P. Stong, DERM M. Armentrout, EPA C. Shaver, NPS



TARMAC FLORIDA, INC. P.O. Box 2998 Hialeah, Florida 33012



Mr. Clair Fancy, P.E., Chief Bureau of Air Regulation Fla. Dept. of Environmental Regulation Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

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IN REPLY REFER TO:

United States Department of the Interior 5

National Park Service SOUTHEAST REGIONAL OFFICE

75 Spring Street, S. W. Atlanta, Georgia, 30303

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DER-BAOM

RFCEIV

Mr. Bill Thomas
Bureau of Air Regulation
Florida Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Dear Mr. Thomas:

Thank you for sending us a copy of Tarmac Florida Inc.'s (Tarmac) permit application and your technical review document regarding Tarmac's proposal to modify its cement manufacturing facility in Medley, Dade County, Florida. The Tarmac facility is located approximately 30 km northeast of Everglades National Park (EVER), a class I air quality area administered by the National Park Service. We appreciate your continued cooperation in notifying us of proposed projects that may impact the air quality and related resources of our areas.

Tarmac proposes to convert kiln No. 2 from gas/oil firing to coal firing. The proposed project would result in significant increases in emissions of sulfur dioxide (SO_2), nitrogen oxides (NO_x), sulfuric acid mist (H_2SO_4), lead (Pb), and beryllium (Ps). Consequently, Ps review is required for these five pollutants. Our comments on the best available control technology (Ps), air quality, and air quality related values (Ps) analyses with respect to the proposed project's potential impacts on Ps are discussed below. We ask that you consider our comments before you make a final determination on the proposed project.

We agree with Tarmac that the existing electrostatic precipitator represents BACT to minimize emissions of Pb and Be. For $\mathrm{SO_2}$ and $\mathrm{NO_x}$, we do not agree that the rates proposed by Tarmac represent BACT. Tarmac has proposed a $\mathrm{SO_2}$ rate of 400 lb/hr (16 lb/ton of clinker produced). This rate is based on a 36 percent inherent removal efficiency associated with the limestone feed into the kiln and the particulate control device. As you point out in your BACT analysis, past BACT determinations for coal fired kilns have ranged from a low of

UNITED STATES DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE SOUTHEAST REGION 75 SPRING STREET, S.W. ATLANTA, GEORGIA 30303

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Mr. Bill Thomas
Bureau of Air Regulation
Florida Dept. of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee FL 32399-2400

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April 19, 1990

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Mr. C.H. Fancy, P.E. Bureau of Air Regulation Florida Department of Environmental Regulation 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Re: Proposed Modification--Kiln No. 2 Coal Conversion PSD-FL-142--AC13-169901

Dear Mr. Fancy:

This correspondence is to summarize the outcome of our meeting on April 17, at your offices in Tallahassee, to discuss the above referenced permit application. The discussion centered on FDER's BACT determination, as set forth in the draft permit, and the proposed $\rm SO_2/NO_x$ emission limits for Kiln 2. Tarmac's major concerns, as expressed to you in the meeting, are as follows:

- 1. Dry process cement kilns cannot be compared with wet process cement kilns, such as Tarmac's;
- 2. NSPS for fossil fuel steam generators are not appropriate for comparison to portland cement plants because of the very different nature of the cement manufacturing process;
- 3. FDER must properly consider site-specific factors in their BACT determination- wet process plant, kiln size and capacity, raw feed sulfur content, coal sulfur content, existing precipitator for particulate control, and proper interpretation of historic test data from the kilns at the plant;
- 4. Past BACT determinations and test data from other wet process kilns (which is very limited) cannot be directly applied to Tarmac Kiln 2, because of the site-specific nature of SO_2/NO_x emissions from cement kilns:
- 5. EPA Region IV has approved in writing Tarmac's plan for a 1-year testing period to determine an acceptable BACT emission limit, with the applicant's proposed emission limits as the starting point for this determination; and







MR C H FANCY

BUREAU OF AIR REGULATION

FLORIDA DEPARTMENT OF ENVIRONMENTAL

REGULATION

2600 BLAIR STONE ROAD

TALLAHASSEE FL 32399-2400

KBN ENGINEERING AND APPLIED SCIENCES, INC.

1034 Northwest 57th Street

Gainesville, Florida 32605

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Tarmac

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TARMAC FLORIDA, INC.

February 15, 1990

Mr. John Reynolds
Permitting Engineer
Division of Air Resources Management
Fla. Dept. of Environmental Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

RE: Proposed Modification - Kiln 2 Coal Conversion PSD-FL-142; DER File No. AC13-169901

Dear Mr. Reynolds:

Please find enclosed the original Waiver was sent via facsimile to you this date permit application for the above source. questions please call me at (305)823-8800.

Of 90 Day Limit which regarding the pending Should you have any

Sincerely,

Scott Quaas

Environmental Specialist

cc: A. Townsend

D. Buff - KBN Engineering

B. andrews

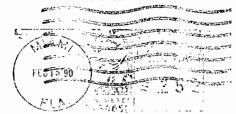
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TARMAC FLORIDA, INC. P.O. Box 2998 Hialeah, Florida 33012





Mr. John Reynolds Permitting Engineer Fla. Dept. of Environmental Regulation 2600 Blair Stone Rd. Tallahassee, Florida 32399-2400

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January 22, 1990 89025

Mr. C.H. Fancy, P.E. Bureau of Air Regulation Florida Department of Environmental Regulation 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Re: Proposed Modification - Kiln No. 2 Coal Conversion PSD-FL-142 - AC13-169901

Dear Mr. Fancy:

Please find enclosed the article entitled "Antidumping Petition On Behalf Of Az-Nm-Tx-Fl Producers of Gray Portland Cement". This article was inadvertently left out of KBN's response letter dated January 15, 1990, concerning the above referenced permit application.

Sincerely,

David A. Buff, M.E.,

Principal Engineer

cc: Bruce Miller, EPA

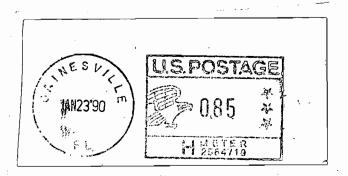
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CC: J. Reynolds
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KBN ENGINEERING AND APPLIED SCIENCES, INC.

1034 NW 57th Street GAINESVILLE, FLORIDA 32605

Hr. C.H. Fancy, P.E..
Bureau & Air Regulation
FL. Dept. of Environmental Regulation
2600 Blair Stone Road
Tallahassee, FL 32391-2400



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JAN 1 8 1990

DER - BAOM

January 15, 1990 89025

Mr. C.H. Fancy, P.E. Bureau of Air Regulation Florida Department of Environmental Regulation 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Re: Proposed Modification - Kiln No. 2 Coal Conversion

PSD-FL-142 - AC13-169901

Dear Mr. Fancy:

The purpose of this correspondence is to provide the department with additional information concerning the above- referenced permit application. Two major areas are addressed herein: the first being responses to EPA's comments contained in their letter to the department dated December 13, 1989; the second being Tarmac's position on the subject of applicability of federal New Source Performance Standards (NSPS) to the Kiln 2 modification.

EPA COMMENTS

1. APPLICABILITY DETERMINATION

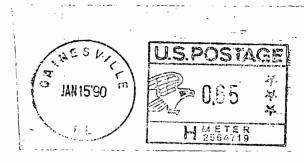
EPA's main concern with the PSD applicability determination was that actual operating hours/production rates were not used in determining the starting point for PSD applicability. Although KBN does not believe a source should be penalized merely because it did not operate at its permitted capacity, as stated in the preamble to the 1980 PSD regulations, this is a subject that will be debated with EPA outside of this permit application. In order to facilitate review of this application and to resolve EPA's concerns, we have recalculated the actual emissions for Kiln 2 based on actual production rates.

Presented in Tables 1 through 5 attached are calculated actual emissions from Kiln 2 for the years 1980 and 1981 (the two most recent full years of kiln operation). Actual emissions from Kiln 2 for particulate matter [PM(TSP) and PM10] are shown in Table 1. The emissions are based on actual PM(TSP) stack test results from which an emission factor (lb/ton clinker produced) was derived. This emission factor was then applied to the actual production for the kiln for 1980 and 1981. The baseline emissions were calculated as the 2-year average emission rate. PM10 emissions were calculated as 85 percent of PM(TSP) emissions, as described in Tarmac's previous submittals.

Actual NOx emissions from Kiln 2 are shown in Table 2. These are based on the NOx source tests conducted on Kiln 2 in 1980, from which a 1b/ton clinker produced factor was calculated for both gas and oil firing. These emission factors were used in conjunction with actual clinker production for the kiln to calculate actual emissions. Only gas was burned in Kiln 2 during 1980 and 1981.

KBN ENGINEERING AND APPLIED SCIENCES, INC.





Mr. C.H. Fancy, P.E. Bureau of Air Regulation Florida Department of Environmental Regulation 2600 Blair Stone Road Tallahassee, Florida 32399-2400

KBN ENGINEERING AND APPLIED SCIENCES, INC.

1034 Northwest 57th Street

Gainesville, Florida 32605





December 21, 1989

Mr. C. H. Fancy, P.E. Bureau of Air Regulation Florida Department of Environmental Regulation 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Re: Proposed Modification - Kiln 2 Coal Conversion

PSD-FL-142: AC13-169901

Dear Mr. Fancy:

Mr. Barry Andrews of your staff has verbally requested additional information regarding the BACT analysis for the above referenced permit application. Barry requested that two items be addressed for the SO₂ BACT analysis. These items were:

- 1. Lower sulfur coal will provide a benefit since it is higher in heating value, thereby requiring less coal usage. This would translate into less SO2 emissions and cost savings from coal purchases.
- 2. The effect of using lower sulfur coal on sulfuric acid emissions.

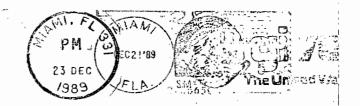
In regards to the first item, Barry has assumed that the heating value of coal is inversely related to the sulfur content; i.e., as sulfur content decreases heating value increases. This would imply additional benefits of less coal usage, lower coal costs, and lower SO2 emissions. Barry stated that these additional benefits of lower sulfur coal should be addressed in the BACT analysis.

To investigate Barry's concerns, Tarmac has analyzed their coal analysis data for the period January 1987 through December 1989. Tarmac took weekly coal samples during this period. As part of the coal analysis, sulfur content and heating value are measured.



TARMAC FLORIDA, INC.

P.O. Box 2998 Hialeah, Florida 33012



Mr. C. H. Fancy, P.E. Bureau of Air Regulation Florida Department of Environmental Regulation 2600 Blair Stone Road Tallahassee, Florida 32399-2400

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

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Mr. Clair Fancy, P.E., Chief Bureau of Air Regulation Florida Department of Environmental Regulation Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Tarmac Florida, Inc. (PSD-FL-142) RE:

Dear Mr. Fancy:

We have received the November 13, 1989, letter and enclosures thereto from Mr. David A. Buff of KBN Engineering and Applied Sciences, Inc., transmitted to us by your Agency. As you are aware, this submittal by KBM was intended to address EPA's concerns with the application for Tarmac's proposed kiln 2 coal conversion project.

<u>Applicability Determination</u>

In reviewing this submittal, it is obvious to us that certain very basic concepts of the Prevention of Significant Deterioration (PSD) rules continue to be misapplied by KBN. In our October 18, 1989 letter to Ms. Patricia Adams of your agency, we raised several concerns with the applicant's determination of historical baseline emissions for several pollutants. In the applicant's November 13, 1989, response to these comments, KBN has dismissed our concerns as being inconsistent with the PSD rules.

KBN has agreed that baseline emissions for determining the amount of potential emissions increases as a result of the kiln modification should be based on actual historical emissions. However, their calculations for determining these actual emissions are based on fictitious allowable operating hours and production rates. no way represents actual emissions. KBN has used these allowable operating hours and production rates in the calculations based on their statement that "an increase in the operating hours or in the production rate of a source does not constitute a physical change in the source or change in the method of operation." The issue here is not whether the kiln, prior to coal conversion, can operate at its allowable production and operational limits without triggering PSD, but the physical modifications to the kiln to accommodate the conversion to coal. This coal conversion is the change which has triggered possible applicability to PSD. Because a physical change

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ENVIRONMENTAL PROTECTION AGENCY
REGION IV
345 COURTLAND STREET
ATLANTA, GEORGIA 30365

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300

AIR-4



Mr. Clair Fancy, P.E., Chief
Bureau of Air Regulation
Florida Department of Environmental
Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

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OCT 1 8 1989

Ms. Patricia G. Adams, Planner
Bureau of Air Regulation
Florida Department of Environmental
Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee Florida 32399-2400

RE: Tarmac Florida, Inc. (PSD-FL-142)

Dear Ms. Adams:

We have received your September 15, 1989, letter transmitting the Prevention of Significant Deterioration (PSD) application submitted by Tarmac Florida, Inc., for the conversion of kiln No. 2 to coal at the facility's existing Portland cement plant. As discussed on October 3, 1989, between Mr. John Reynolds of the Florida Department of Environmental Regulation (DER) and Mark Armentrout of my staff, we are offering the following comments.

Applicability Determination

The source has incorrectly performed PSD applicability determinations for particulate matter (PM/PM₁₀), oxides of nitrogen (NO_x), sulfur dioxide (SO₂) and volatile organic compounds (VOC). underlying flaw in all of these determinations is in the calculation of baseline (historic actual) emissions. In the case of PM emissions, the source concluded that baseline emissions are 31.3 They justify this value by stating that the highest actual source test emissions, as determined by a March 1982 test, resulted in a PM emission rate of 26.3 lb/hr which is close to the current allowable of 31.3 lb/hr. As you are aware, baseline emissions must be calculated based on the two-year average of actual emissions under representative operating conditions. We request that the facility amend their application by including the results of all PM source tests during the representative two-year period, recalculating baseline emissions, and performing a PSD review, if applicable. Furthermore, and as discussed below, the applicant must submit production records for the baseline period which indicate the usage of oil and gas in the kiln and annual hours of operation. It also appears that the applicant has not included the fugitive emissions increases (new coal mill) and increases from the No. 3 kiln coal handling equipment in the PM applicability determination, i.e., in the new allowable PM emission rates.

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Ms. Patricia G. Adams, Planner Bureau of Air Regulation Florida Dept. of Envirn. Regulation Twin Towers Office Building 2600 Blair Stone Road Tallahassee, FL 32399-2400

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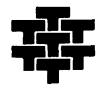
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Sent to Mr. Scott Quaas, Tarmac Florida Street and No. P.O. Box 2998 P.O., State and ZIP Code Hialeah, FL 33012 s Postage . Certified Fee Special Delivery Fee Restricted Delivery Fee Return Receipt showing to whom and Date Delivered Return Receipt showing to whom, Date, and Address of Delivery s TOTAL Postage and Fees Form 3800, Postmark or Date Mailed: 10-4-89 Permit: AC 13-169901 PSD-FL-142 S



TARMAC FLORIDA, INC.

P.O. Box 2998 Hialeah, Florida 33012

August 31, 1989

Mr. Clair Fancy, P.E. Division of Air Resources Management Fla. Department of Environmental Regulation 2600 Blair Stone Road Tallahassee, Florida 32399-2400

RE: Application For Major Modification Pennsuco Cement & Supply Permit No. A013-157297

Dear Mr. Fancy:

Tarmac is pleased to submit an Application To Operate/Construct Air Pollution Sources for the modification of Kiln 2 to burn coal as primary fuel. Included as part of the submittal is a PSD evaluation, application, BACT and air quality analysis. Additionally, a check in the amount of \$5000.00 is enclosed for the permit processing fee.

Tarmac looks forward to working with you and your staff on this project. Please do not hesitate to contact me or Scott Quaas of this office regarding any questions or further information you may need. The telephone number is (305)823-8800.

DERM

Sincerely,

Albert Townsend

Manager

Real Estate & Environmental

CC: K. Riveira

D. Bailey

S. Quaas

D. Buff - KBN Engineering

S. Brooks - FDER, SE Dist. P. Wong,

g. Reynolds B. Andrews

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Check Sheet

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