Date: 09-Oct-1995 03:39pm ES

From: John Reynolds TAL

REYNOLDS J

Dept: Air Resources Manageme

Tel No: (904)488-1344

**SUNCOM:** 278-1344

TO: Alvaro Linero TAL

( LINERO A )

Subject: Tarmac Memo Dated Oct. 3, 1995

I don't recall that we agreed to a BACT "re-determination" as Jim Alves implied. We said we would like more information regarding why the NOx numbers were so high relative to Kiln No. 3, but we didn't say we would use that information to redetermine BACT.

I suggest we respond with the following:

"This is in response to your letter dated October 3. As indicated during the Tarmac meeting on August 30, the Department would like more information as to why the NOx emissions from Kiln No. 2 exceed the BACT limit and why they are so much higher than Kiln No. 3 which was the basis for the Kiln No. 2 BACT limit. However, please understand that no agreement has been made to revise the BACT determination or to avoid enforcement of the current emission limit.

Rather than spending a lot of time and money developing an extensive report on various wet kiln technologies geared toward a revised BACT, Tarmac should be zeroing in on specific peculiarities of Kiln No. 2 affecting NOx emissions, perhaps conducting additional testing with another burner and/or employing kiln/burner design consultants to see if the problem can be solved through non-major physical/operational modifications. The Department will agree to a 7-month time period to accomplish this, which means that Tarmac must present evidence of its modification investigation and the results to the Department by May 15, 1996. "

#### HOPPING GREEN SAMS & SMITH

JAMES S. ALVES BRIAN H. BIBEAU KATHLEEN L. BLIZZARD ELIZABETH C. BOWMAN RICHARD S. BRIGHTMAN RICHARD S. BRIGHTMAN
PETER C. CUNNINGHAM
RALPH A. DEMEO
THOMAS M. DEROSE
WILLIAM H. GREEN
WADE L. HOPPING
FRANK E. MATTHEWS
RICHARD D. MELBON
DAVID L. POWELL
WILLIAM D. PRESTON
CAROLYN S. RAEPPLE
DOUGLAS S. ROBERTS
GARY P. SAMS
ROBERT P. SMITH
CHERYL G. STUART

PROFESSIONAL ASSOCIATION ATTORNEYS & COUNSELORS 123 SOUTH CALHOUN STREET POST OFFICE BOX 6526 TALLAHASSEE, FLORIDA 32314 (904) 222-7500 FAX (904) 224-8551 FAX (904) 425-3415

> WRITER'S DIRECT DIAL NO. 425-2360

KRISTIN M. CONROY CONNIE C. DURRENCE JONATHAN S. FOX JAMES C. GOODLETT GARY K. HUNTER, JR. JONATHAN T. JOHNSON ROBERT A. MANNING ANGELAR, MORRISON GARY V. PERKO KAREN M. PETERSON MICHAEL P. PETROVICH LISA K. RUSHTON R. SCOTT RUTH JULIE R. STEINMEYER OF COUNSEL

CARLOS ALVAREZ W. ROBERT FOKES

October 3, 1995

RECEIVED

Bureau of Air Regulation

### VIA HAND DELIVERY

Mr. Al Linero New Source Review Section Florida Department of Environmental Protection 111 S. Magnolia Avenue, Suite 4 Tallahassee, FL 32302

> RE: Tarmac Florida, Inc. Kiln No. 2

Dear Al:

As discussed by telephone last month, Tarmac Florida requests that in addition to extending the expiration date of its PSD permit, DEP also include, as a minor modification, a schedule for resolving the pending issues concerning the final BACT determination for NOx. More specifically, this schedule would consist of the following three steps in development and consideration of pertinent information:

- January 15, 1996 -- KBN to complete and submit to DEP results of a literature (1) search compiling available information related to NOx emissions and NOx control technologies potentially applicable to wet process kilns. The results will be provided in narrative, tabular, and graphic format, as indicated from the data. The following potential sources of information will be consulted: EPA (Research Triangle Park Regional Offices, and BACT Clearinghouse); State of California: Portland Cement Association; air pollution control equipment vendors; supplies of coal burners; and sources operating NOx control systems on wet process kilns.
- (2) April 15, 1996 -- KBN to prepare and to submit a report addressing technically feasible NOx control technologies applicable to wet process cement kilns along

Al Linero October 3, 1995 Page 2

with economic evaluations of feasible alternatives. With respect to technical feasibility, an engineering analysis will be conducted of the cement kiln process, process variables, and factors affecting NOx emissions. Areas investigated will include the species of NOx generated, the formation steps in the kiln, and the potential magnitude and species of NOx formed. Both Tarmac's cement kiln and other operating wet process cement kilns may be visited during this task, to assess the feasibility of various technologies. A written discussion of the results will be provided, along with supportive tables, graphs, etc. With regard to the economic evaluation of the technically feasible alternative control technologies, capital and annual operating costs will be developed for each alternative, and the total and incremental cost effectiveness for each will be determined. Costs will be based upon vendor information and standard cost estimating procedures published by EPA.

(3) May 15, 1996 — Based on the results of the economic evaluation and other information gathered during the study, KBN's BACT recommendation will be submitted. This recommendation will follow the EPA's "top-down" approach for determining BACT. A report describing the information and analysis gathered in all tasks will be developed for presentation to the Department. A meeting with the Department will be convened to present the results of the study and to discuss the analysis.

This process would facilitate the orderly development of relevant information, and allow DEP and Tarmac to address and evaluate pertinent questions in a systematic manner. Certainly a major advantage to this requested permit modification is that it identifies an endpoint to negotiations on this issue.

Please let me know at your earliest convenience whether this suggestion is acceptable to DEP. Of course, David Buff of KBN and I would be pleased to answer any questions regarding this proposal.

Very truly yours,

James S. Alves

JSA:1b



Tarmac America, Inc.

455 Fairway Drive Deerfield Beach, FL 33441

Telephone: 305.481,2800 Facsimile: 305.480,9352

#### HAND DELIVERED

30 August 1995

Mr. A. A. Linero, P.E. Administrator – New Source Review Fla. Dept. Of Environmental Protection 2600 Blair Stone Road Tallahassee, Florida 32399-2400

RE: Pennsuco Cement Plant

Dade County - AP

Kiln No. 2 Coal Conversion

FDEP Permit No. AC13-169901 [PSD-FL-142]

Dear Mr. Linero:

I am in receipt of your letter dated August 24, 1995 regarding my recent extension request for the above referenced permit. I have enclosed a check in the amount of \$250.00 [check# 207080] for the required processing fee. Your comment regarding Tarmac's statement in a letter dated April 24, 1995 is noted. However, the submittal of an operation permit application would be premature in view of the requested reevaluation of the  $NO_x$  emission limits. We will discuss those matters at our meeting scheduled for this date.

Sincerely,

Scott Quaas

Environmental Manager

Technical Services-Florida Region

Date:

29-Aug-1995 12:26pm ES

From:

John Reynolds TĀL

REYNOLDS J

Dept:

Air Resources Manageme

Tel No:

(904)488-1344

SUNCOM:

278-1344

TO: Patricia Comer ( COMER P )

CC: Alvaro Linero TAL ( LINERO A )

Subject: Tarmac

Correction, I should have said "meet the BACT limit of 1.04 1b/MMBTU" which represents the top of their proposed range.

TAL

Date: 29-Aug-1995 07:15am EST

From: Patricia Comer TAL

COMER P

Dept: Office General Counsel

Tel No: 904/488-9730

**SUNCOM:** 278-9730

TO: John Reynolds TAL (REYNOLDS J)

Subject: Tarmac

John

I saw Jim Alves today and we decided that the meeting tomorrow should be technical, no attorneys. He says that the reason that Tarmac had a range was because nobody knew what BACT should be, but that they couldn't meet the range. Maybe you can talk to these guys about what the problem is, etc. but keep the legal issues open for later. Jim also says that the bubble rule, that's in the making this year, might resolve this problem. I'm not sure about any of that right now, but if so, all the better.

I think we suffer from not having Barry's input here. I wish I knew what the ranges were based on, if they were intended for BACT. Maybe you can find that out from the Tarmac people?

Thanks Pat

Date: 09-Aug-1995 01:49pm ES

From: John Reynolds TAL

REYNOLDS J

Dept: Air Resources Manageme

**Tel No:** (904)488-1344

**SUNCOM:** 278-1344

TO: Patricia Comer TAL (COMER P)

Subject: TARMAC CASE NO. 90-0954

The New Source Review Section would like the OGC's input regarding Tarmac's current request to amend a 1991 PSD construction permit quadrupling allowable  $\mathrm{NO}_{\mathrm{X}}$  emissions. Tarmac wants to meet with us right away on this, so we need a response ASAP. Specifically, we need to know why the Department agreed, in the Stipulation for Dismissal of the case, to a rather bizarre arrangement whereby the Department would reevaluate the BACT limits if emission results from a one-year test program fell within a stated range of values. Is the Department legally bound to reevaluate the permit limits if the test results are above the stated range of values as are the  $\mathrm{NO}_{\mathrm{X}}$  results?

The stipulated permit condition is:

"Tarmac shall conduct a series of compliance tests for SO2, H<sub>2</sub>SO<sub>4</sub> mist, and NO<sub>X</sub> emissions every two months for up to one year to allow representative sampling during different times of the year. The tests shall be performed in accordance with the compliance test methods specified in this permit. In the event that this series of tests results in SO2 emissions in the range of 195 to 275 lbs/hr (up to 11 lbs/ton clinker, 1,084.1 TPY),  $NO_X$ emissions in the range of 113.8 to 169.3 lbs/hr (up to 6.77 lbs/ton clinker, 667.2 TPY), or H<sub>2</sub>SO<sub>4</sub> mist emissions in the range of 5.86 to 8.25 lbs/hr (up to 0.33 lbs/ton clinker, 32.52 TPY), the Department, if requested by the permittee, shall reevaluate BACT and consider upward adjustments of the emission limitations for the indicated constituents based on available data. During this testing and evaluation period, the permittee shall make reasonable efforts to limit air emissions, and the Department shall not initiate enforcement proceedings. Any upward adjustment of emission limitations pursuant to this paragraph shall be the subject of public notice in a local newspaper pursuant to Department rules. The Department's determination based on the data produced under this paragraph shall be a point of entry for purposes of Section 120.57, Florida Statutes."



A.

Tarmac America, inc.

455 Fairway Drive Deerfield Beach, FL 33441

Telephone: 305.481.2800 Facsimile: 305.480.9352

CERTIFIED MAIL - RRR Z 056 630 740

17 July 1995

Ms. Stephanie Brooks, P.E. Air Resources Management Fla. Dept. Of Environmental Regulation P.O. Box 15425 W. Palm Beach, Florida 33416 RECEIVED

JUL 24 1995

Bureau of Air Regulation

RE: Pennsuco Cement Plant

Dade County - AP

Kiln No. 2 Coal Conversion

FDEP Permit No. AC13-169901

Dear Ms. Brooks:

Please find enclosed stack a emission test report in accordance with the test protocol specified in the above referenced permit. The protocol required a series of compliance tests every two months for one year and the enclosed test conducted on May 31, 1995 is the last in that series. The table below summarizes the series test results.

Test Date	Clinker Production	Sulfur Dioxide	Sulfuric Acid Mist	Nitrogen Oxides	Carbon Monoxide	VOC's	Particulate Matter	PM10
4/26-27/94	24.08	0.36	0.07	417.32	9.73	1.00	13.26	11.27
6/28-29/94	23.80	48.85	*	279.08	-	-	_	-
8/31/94	19.30	7.89	3.60	204.53	-			-
10/27-28/94	24.7	5.94	*	287.92	-		-	
1/3/95	23.0	0.77	0.91	335.71	-	-		-
5/31/95	24.0	4.43	2.27	328.4	-	-	-	
AVERAGE	23.15	11.37	1.71	308.83	9.73	1.00	13.26	11.27

[all test results in lbs/hr]

Copies of this letter and the enclosed test reports have been forwarded to the DERM. In accordance with the permit protocal, a request will be prepared and submitted for modification of the emission

<sup>\*</sup> interference problems - see report

Ms. Stephanie Brooks

Fla. Dept. of Environmental Protection

RE: Pennsuco Cement Plant Kiln No. 2 Coal Conversion

17 July 1995

Page -2-

limits for  $NO_x$  and  $SO_2$  relative to the test results. Should you have any questionsat this time regarding the enclosed reports please call me at (800) 330-3380 x4165.

Sincerely,

Scott Quass

Environmental Manager

Technical Services-Florida Region

cc: A. Townsend

R. Pluta

E. Anderson - DERM

C. Fancy - FDEP, Tallahassee -



# Department of Environmental Protection

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

Virginia B. Wetherell Secretary

June 15, 1995

PSD-FL-142

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. David A Buff, P.E. Principal Engineer KBN Engineering and Applied Sciences, Inc. 6241 N.W. 23rd Street - Suite 500 Gainesville, FL 32653-1500

Re: Petcoke Project

Tarmac Florida, Inc.

A013-238048

Dear Mr. Buff:

Your letter of May 19, 1995 was forwarded to this office by the Southeast District. They cannot amend the Operating Permit as requested until any underlying construction permits are modified to provide for utilization of petroleum coke.

The scenario described in your letter indicates no increase in sulfur dioxide (SO<sub>2</sub>) emissions if the proposed petcoke/coal blend has a sulfur content equal to the maximum allowed sulfur content of the presently-used coal. It is still necessary to compare the future potential emissions of regulated pollutants affected by the change with present actual emissions. The latter are based on what emissions have been in recent years instead of what they could have been.

Because of its high vanadium content, petcoke usage results in higher sulfuric acid mist emissions even if sulfur content remains constant. This is because of catalytic oxidation of SO<sub>2</sub> to sulfur trioxide in the presence of vanadium. Since acid mist is a pollutant subject to Prevention of Significant Deterioration (PSD) analysis, it is necessary to know the effects of the operational change on actual emissions for this pollutant. It should also be substantiated that the additional vanadium and nickel found in petcoke will indeed be retained in the clinker or control equipment.

We recommend you take a second look at the proposed project. At a minimum it will require modification of existing construction permit(s) and engineering calculations showing the changes in all pollutants affected by the change. It may be necessary to conduct a trial burn, if information is not already available for emissions predictions.

If you have any questions regarding this matter, please call me or John Reynolds at (904)488-1344.

Sincerely

A.A. Linero, P.E. Administrator, New

Source Review

AAL/aal/l

cc: Stephanie Brooks, SED



## Department of Environmental Protection

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

Virginia B. Wetherell Secretary

May 8, 1995

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

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

Dear Mr. Townsend:

Re: Extension of Permit No. PSD-FL-142/Kiln No. 2

The Department received Tarmac's April 7 letter requesting an extension of the expiration date of the above permit. The expiration date is changed as shown below:

From: December 31, 1993

To: August 31, 1995

This letter shall become Attachment No. 15 to this permit.

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, Florida Statutes (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. Petitions filed by the applicant of the amendment request/application and the parties listed below must be filed within 14 days of receipt of this amendment. Petitions filed by other persons must be filed within 14 days of the amendment issuance or within 14 days of their receipt of this amendment, whichever occurs first. 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 File Number and the county in which the project is proposed;

Mr. Albert W. Townsend May 8, 1995 Page Two

u • , + <u>.</u> . .

(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 the 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 amendment. Persons whose substantial interests will be affected by any decision of the Department with regard to the amendment 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 receipt of this amendment 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, Florida Administrative Code.

Sincerely

Howard L. Rhodes, Director Division of Air Resources Management

HLR/jr/t

cc: I. Goldman, SED

- D. Buff, P.E.
- J. Harper, EPA
- E. Anderson, DERM

RECEIVED

TO:

Howard L. Rhodes

FROM:

Clair Fancy

DATE:

May 5, 1995

SUBJ:

Tarmac Florida, Inc.

PSD-FL-142 - Kiln No.2

MAY 5 1995

Bureau of Air Regulation

Attached for your approval and signature is a letter extending the expiration date of the subject construction permit to provide additional time needed for testing.

I recommend that this extension be approved.

HLR/jr/t

Attachments



# Department of Environmental Protection

JK3 woping

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

Virginia B. Wetherell Secretary

May 3, 1995

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

Re: Pennsuco Cement Plant Kiln No. 2 Coal Conversion

FDEP Permit No. AC13-169901, PSD-FL-142

Dear Mr. Quaas:

The Department has reviewed your letter of April 24 and will act on your original request of October 1, 1993, to extend the referenced construction permit.

Unfortunately, your letter to the Southeast District dated March 28, 1994, did not reference your extension amendment request, nor indicate any other action for the Tallahassee office. The letter with the Certificate of Completion indicated that construction was finished and we inferred that there was no need to act on the extension request.

Because the Certificate of Completion satisfies our requirement that Tarmac "show that construction has commenced," we will act on the extension. However, you must submit a timely and complete Title V permit application to the Southeast District at least sixty days prior to expiration of the extended construction permit.

If you have any questions regarding this matter, please call A. A. Linero at 904/488-1344.

Sincerely

C. H. Fancy, P.E.

Chief

Bureau of Air Regulation

CHF/ch

cc: A. A. Linero

Stephanie Brooks

Patrick Wong



455 Fairway Drive

## TARMAC FLORIDA, INC.

CERTIFIED MAIL - RRR Z 115 124 470

24 April 1995

Mr. C.H. Fancy, P.E. Chief – Bureau of Air Regulation Fla. Dept. Of Environmental Protection 2600 Blair Stone Road Tallahassee, Florida 32399-2400 Deerfield Beach, Florida 33441

Telephone:
Deerfield Beach (305) 481-2800
RECEIVE

APR 26 1995

Bureau of Air Regulation

RE: Pennsuco Cement Plant

Dade County - AP Kiln No. 2 Coal Conversion

FDEP Permit No. AC13-169901 [PSD-FL-142]

Dear Mr. Fancy:

A review of the above facility permit file revealed that Tarmac's request for permit extension was not acted upon by the Department. Your letter of October 19, 1993 (copy enclosed) stated "... the existing permit shall remain in effect until the renewal application has been finally acted upon by the Department.". By the same letter requested Tarmac to provide evidence to show that construction had commenced prior to April 1, 1994. Tarmac submitted to the Department on March 28, 1994 (copy enclosed) a Certificate of Completion of Construction along with notice that testing as specified in the referenced permit was to commence. That information should have satisfied the Department's request.

Tarmac would ask that the Department review the enclosed documents and grant a permit extension until August 31, 1995. By the testing specified by the permit conditions will be completed within the next 30 days and an operation permit application should be ready for submittal within 60 days thereafter. Should you have any questions or need further information please call me at (800)330-3380 x4165.

Sincerely,

Environmental Manager Technical Services

cc: R. Pluta

A. Townsend

B. Smith

D. Bailey

S. Brooks - FDEP, WPB

DERM