

Department of Environmental Protection

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

Colleen M. Castille Secretary

May 1, 2006

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Herschel E. Morris, Vice President Phosphate Operations/General Manager CF Industries, Inc. Post Office Drawer L Plant City, Florida 33564

Re: DEP File No. 0570005-021-AC; PSD-FL-355

'A' Sulfuric Acid Plant & 'A' and 'B' Phosphoric Acid Plants Production Increase

Plant City Phosphate Complex

Dear Mr. Morris:

Enclosed are comments submitted by the Southwest District Office (SWD) in regards to the completeness issues for this project. Please submit the information as requested by SWD with a copy to the Department's Bureau of Air Regulation. We are still awaiting comments from Environmental Protection Agency and U.S. Fish and Wildlife Service, which will be forwarded to you after we receive them.

The Department will resume processing this application after receipt of the requested information. Rule 62-4.050(3), F.A.C. requires that all applications for a Department permit must be certified by a professional engineer registered in the State of Florida. This requirement also applies to responses to Department requests for additional information of an engineering nature. A new certification statement by the authorized representative or responsible official must accompany any material changes to the application. Rule 62-4.055(1), F.A.C. now requires applicants to respond to requests for information within 90 days.

If you have any questions regarding this matter, please call Mr. Syed Arif, P.E. at 850/921-9528 or Mr. Quaid Noor of SWD at 813/632-7600, Ext.112.

Sincerely,

Syed Arif, P.E.

Bureau of Air Regulation

/sa

Enclosure

cc: G. Worley, EPA

J. Bunyak, NPS

T. Edwards, CF Industries

M. Nasca, DEP-SWD

J. Campbell, HCEPC

D. Buff, P.E., Golder Associates, Inc.

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CF INDUSTRIES PLANT CITY PHOSPHATE COMPLEX 0570005-021-AC (PSD-FL-355)

COMMENTS AND REQUESTS FOR ADDITIONAL INFORMATIONS (RAI) FOR THE ABOVE-MENTIONED PROJECT

- 1. Refer to attachment CF-EU1-II, "A" Phosphoric Acid Plant Block flow diagram, please explain Steam Eductors in Flash Coolers, Forced Circulation Vacuum Evaporator 26% to 40% P₂O₅, and Forced Circulation Vacuum Evaporator 26% to 40% P₂O₅. Please submit the revised block flow diagram with correct items.
- 2. Refer to Subsection III, Page 14, Sulfuric Acid Plant A (SAP), Field No. 3, please correct the emission unit ID number from 003 to 002 and resubmit the corrected page.
- 3. Refer to Subsection III, Page 20, Sulfuric Acid Plant A (SAP) SO₂, page No. 20, Field No. 8, Calculation of Emissions, and PSD Report page 2-3, 3rd paragraph, although lower SO₂ emission rates of 3.85 lb/ton (3-hr average), and 3.5 lb/ton (24-hour average) are proposed, 24-hour average and 12-consecutive month values increase significantly. Current TV permit (0570008-017-AV) allows: 5.6 lb/ton of 100% H₂SO₄ (equivalent to 303.4 lb/hour for 1300 tpd of 100% H₂SO₄ (3-hour rolling average), and 4.23 lb/ton of 100% H₂SO₄ (equivalent to 229 lbs/hour, and 1,003 tpy for 1300 tpd of 100% H₂SO₄ (consecutive 12-month rolling average). The proposed SO₂ 24-hour average is 233.3 lb/hour, and 1,022 tpy. Both these figures are significantly higher than current permit limit. Based on the information above, please explain the PSD Report page 2-3, 3rd paragraph sentence "To achieve the proposed lower SO₂ emission limits...". Please resubmit the corrected pages.
- 4. Refer to Subsection III, Page 20, Sulfuric Acid Plant A (SAP) SAM, page No. 20, Field No. 8, Calculation of Emissions, and PSD Report page 2-3, 4th paragraph, although lower SAM emission factor of 0.10 lb/ton of H₂SO₄ is proposed, hourly and 12-consecutive month values increase significantly. Current TV permit (0570008-017-AV) allows: 0.3 lb/ton of 100% H₂SO₄ (equivalent to 1.43 lb/hour (each hour), 0.83 lbs/hour (consecutive 12-month average), and 3.49 tons/year (consecutive 12-month period). The proposed SAM emission numbers are 6.67 lbs/hour (hourly), and 29.2 tons/year (annual). Both these figures are significantly higher than current permit limit. Based on the information above, please explain the PSD Report page 2-3, 4th paragraph sentence "No new technology will be necessary to meet this limit...". Please resubmit the corrected pages.
- 5. Refer to Subsection III, Sulfuric Acid Plant A (O₂), page No. 24, Field No. 7, Continuous Monitor Comment: This emission unit No. 002 is not subject to NSPS Subpart H. Please correct and resubmit the page.
- 6. Refer to PSD Report, page 2-4, section 2.2.2, "A modification is proposed for the PAPs to increase the production rate by 20%, which will be facilitated by the installation of additional reactor flash cooling equipment, and/or increased evaporation capacity equipment, and double-gypsum filtration. Please show these modification items in the revised attachments CF-EU1-I1, and CF-EU2-I1 (revised block flow diagram for PAP A and PAP B) and resubmit the diagrams.

SENDER: COMPLETE THIS SECTION.	COMPLETE THIS SECTION ON DELIVERY	
 Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpied or on the front if space permits. 	reverse B. Received by (Printed Name) and (Printed	
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Mr. Herschel E. Morris, Vice President Phosphate Operations/General Manager CF Industries, Inc. Post Office Drawer L		
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