

# C. FRED DEUEL & ASSOCIATES, INC.

CONSULTING ENGINEERS • LAND SURVEYORS • LAND PLANNERS

CORPORATE OFFICE

P.O. BOX 10116  
ST. PETERSBURG, FLORIDA 33733-0116  
1620 FIRST AVENUE NORTH  
ST. PETERSBURG, FLORIDA 33713  
(813) 822-4151  
FAX (813) 821-7255

BRANCH OFFICES

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APR 12 1991  
DER-BAQM  
P.O. BOX 1798  
ZEPHYRHILLS, FLORIDA 33539-1798  
5151 NORTH GALL BOULEVARD  
ZEPHYRHILLS, FLORIDA 33541  
(813) 782-6717

April 8, 1991

STARTING GATE - SUITE 10  
2801 SW COLLEGE ROAD  
OCALA, FLORIDA 32674  
(904) 237-1101

PLEASE REPLY TO:

Zephyrhills

Mr. C.H. Fancy, P.E.  
Chief, Bureau of Air Regulations  
Florida Department of Environmental Regulation  
2600 Blair Stone Road  
Tallahassee, Florida 32339-2400

RE: DER File No. AC29-187327

Dear Mr. Fancy:

Mr. M. Baig of your department requested a revised estimate of emissions from the sulfur handling facility at CF Industries, Inc., Plant City Phosphate Complex based on the requested increase in throughput to 2550 tons/day average.

The revised estimate is based on an anticipated increase in sulfuric acid production from 6900 tons/day as reflected in the Construction Permit Number AC-167204 issued January 17, 1990 to 7800 tons/day. This change was requested by Mr. Parsons, General Manager, on March 7, 1991 by letter to you.

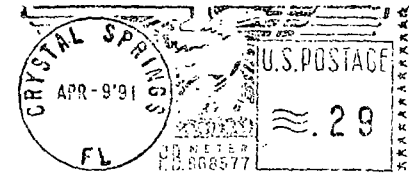
Specific Condition #8 of the referenced permit outlined the maximum expected emissions based on a throughput of 2255 tons/day sulfur. Since the only change is the throughput, the emissions are expected to increase by the ratio of 2550/2255 or a factor of 1.13 times the outlined emissions.

The table below is revised to reflect this increase:

Source		Expected Emissions			
		PM/PM10	SO2	TRS/H2S	VOC
Tank	lb/hr	0.23	1.02	0.45	0.68
	TPY	0.34	1.36	0.68	0.90
Truck Pit	lb/hr	0.11	0.11	0.11	0.11
	TPY	0.11	0.11	0.11	0.11

**CF Industries, Inc.**

PLANT CITY PHOSPHATE COMPLEX  
P. O. DRAWER L  
PLANT CITY, FLORIDA 33566

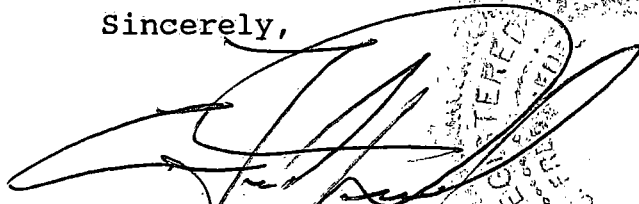


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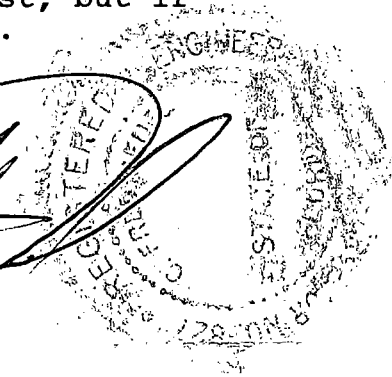


I believe this satisfies Mr. Baig's request, but if anything else is needed, please give me a call.

Sincerely,



C. Fred Deuel



cc: m. Baig  
B. Thomas, SW Dist  
J. Campbell, EPCMC

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Handwritten calculations and notes:

0.317 Lbs/hr  
 40.361 T/yr. → From application dated 6/30/89 = 0.408.

0.361 Tons/yr. × 1.13 = 0.408

(0.209 + 0.072) Lbs/Hr.  
 = 0.281 Lbs/Hr. × 1.13  
 = 0.317 Lbs/Hr.