



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 7
901 NORTH 5TH STREET
KANSAS CITY, KANSAS 66101

OCT 05 2009

Marian Massoth, Air Permitting Chief
Kansas Department of Health and Environment
Bureau of Air and Radiation
1000 SW Jackson, Suite 310
Topeka, KS 66612-1366

RE: Frontier El Dorado Refining Company PSD comments

Dear Ms. Massoth:

On August 13, 2009, the United States Environmental Protection Agency (EPA) received notice from the Kansas Department of Health and Environment (KDHE) of the draft Prevention of Significant Deterioration (PSD) permit revision for Frontier El Dorado Refining Company (Frontier) located at 1401 South Douglas Road, El Dorado, Kansas. We have completed our review of the draft permit and have the following comment.

From the application information we have, we agree that KDHE's NO_x BACT determination of 0.035 lbs/MMBtu for the crude heaters, B-306 and B307, may be appropriate. However, we do not see that Frontier has justified raising the NO_x BACT limit from 0.020 to 0.035 lbs/MMBtu for the vacuum heater, B-2402. We suggest that the NO_x BACT limit for the larger vacuum heater, B-2402, be set at 0.030 lbs/MMBtu because the stack test data shows that the emissions consistently measured 0.025 lbs/MMBtu during the test. Unfortunately, the stack test data exhibited so little variability that applying the 95% confidence interval approach (a statistical data analysis tool) is not useful for this limited data set. By setting the NO_x BACT limit at 0.030 lbs/MMBtu for unit B-2402, it allows for a margin of error of 20% above the levels measured during the stack test, and we believe it is appropriate for KDHE to establish two NO_x BACT limits for Frontier, one for the two crude heaters and one for the larger vacuum heater.

As always, we appreciate the opportunity to provide what we hope you will find to be constructive comments. Please contact Patricia Scott at (913) 551-7312 if you have any questions or comments regarding this letter.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark A. Smith".

Mark A. Smith, Chief
Air Permitting and Compliance Branch
Air and Waste Management Division