

P.E. CERTIFICATION STATEMENT

PERMITTEE

CEMEX Construction Materials, LLC  
10311 Cement Plant Road  
Brooksville, Florida 34601

Final Permit No. 0530021-038-AC  
Revisions to Alternative Fuels Trials  
Brooksville South Cement Plant  
Hernando County, Florida

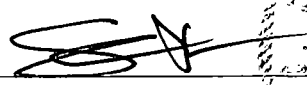
PROJECT DESCRIPTION

The permittee requests a revision to Permit No. 0530021-035-AC for the following items: allowing the option for a baghouse on the Schenk feeder system and increasing the amount of tire-derived fuel by 3,000 tons for a total of 7,500 tons.

Permit No. 0530021-035-AC authorized temporary short-term trials to co-fire coal with each of the following alternative fuel materials in the existing cement kiln to gather operational and emissions data: non-chlorinated plastics, tire-derived fuel including tire fluff, reject roofing shingles, clean woody biomass, agricultural fibrous organic byproducts, pre-consumer reject paper, carpet-derived fuel, on-specification (on-spec) used fuel oil generated off-site and engineered fuel to determine the operational viability of each fuel, the impacts on emissions and the effect on cement quality. The calculated particulate emissions from the feeder with the baghouse are less than 1 ton per year, this is a conservative estimate based upon the control guarantee from the manufacturer for dry material. The particulate matter emissions, without the baghouse, from all fugitive emissions is calculated as 1.7 tons per year. The addition of a baghouse decreases those particulate matter emissions. The fugitive emissions from the handling and injection system are negligible as the materials all have moistures above 1.5 percent, this is considered "wet" in AP-42 11.19.2-5 (Air Pollutant Emission Factors). The material is enclosed at all points except for the point of transfer from the truck to the hopper of the Schenk feeder system. The pre emissions are estimated at a transfer point with wet material at a nominal rate of 15 ton/hr. Using AP-42, at the transfer point (controlled) it is  $0.00014 \text{ lb/ton} \times 15 \text{ ton/hr} \times 8760 \text{ hr/yr} = 18 \text{ lb/yr}$ . The additional 3,000 tons of tire-derived fuel will result in an increase of CO emissions by 15 tons with a decrease in emissions for other pollutants.

This project is subject to the general preconstruction review requirements in Rule 62-212.300, Florida Administrative Code (F.A.C.) and is not subject to the preconstruction review requirements for major stationary sources in Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality. The Department's full review of the project and rationale for issuing the final permit is provided in the Technical Evaluation and Preliminary Determination.

*I HEREBY CERTIFY that the air pollution control engineering features described in the above referenced application and subject to the proposed permit conditions provide reasonable assurance of compliance with applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-4 and 62-204 through 62-297. However, I have not evaluated and I do not certify any other aspects of the proposal (including, but not limited to, the electrical, civil, mechanical, structural, hydrological, geological, and meteorological features).*

  
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S. Christine DeVore, P.E. (Date)  
Registration Number 63119

