

## NOTICE OF APPLICATION

Florida Department of Environmental Protection  
Division of Air Resource Management, Office of Permitting and Compliance

Project No. 0530021-039-AC  
CEMEX Construction Materials Florida, LLC, Brooksville South Cement Plant  
Hernando County, Florida

**Applicant:** The applicant for this project is CEMEX Construction Materials Florida, LLC. The applicant's authorized representative and mailing address is: Mr. Jim Daniel, Plant Manager, CEMEX Construction Materials Florida, LLC, Brooksville South Cement Plant, 10311 Cement Plant Road, Brooksville, Florida 34601.

**Facility Location:** CEMEX Construction Materials Florida, LLC operates the existing Brooksville South Cement Plant, which is located in Hernando County at 10311 Cement Plant Road in Brooksville, Florida. The Department of Environmental Protection received an application for an air construction permit from CEMEX Construction Materials Florida, LLC. The application requests authorization to: construct mechanical and pneumatic material handling systems for introduction of alternative fuels into the existing preheater/precalciner kiln system and replace the main kiln burner to allow introduction of a variety of fuels to the Kiln No. 2 System. These modifications will not increase production capacity. The applicant does not request the relaxation of any existing permit limit or applicable regulatory requirements for Portland cement plants.

The cement kiln is currently authorized to fire natural gas, distillate fuel oil, on-specification used oil, coal, petroleum coke, propane, fly ash, and whole tires. The plant is also permitted for trial burning of a variety of non-hazardous alternative fuels. Based on newly-developed available information regarding the firing of non-hazardous alternative fuels in cement kilns, the plant requests permanent authorization to fire the non-hazardous alternative fuels, identified below. The applicant proposes to use these alternative fuels for cement production to reduce greenhouse gases and its reliance on fossil fuels, such as coal. The project includes electric or diesel-powered shredding and screening equipment to further process these materials onsite as necessary.

The plant requests authorization to fire the following non-hazardous alternative fuels in any combination in the existing cement Kiln No. 2: tire-derived fuel; plastics; roofing materials; agricultural biogenic materials (e.g., peanut hulls, rice hulls, corn husks, citrus peels, cotton gin byproducts, animal bedding, etc.); untreated cellulosic biomass (e.g., green wood, forest thinnings, sawdust, trees trimmings, clean woody land clearing debris and clean construction and demolition (C&D) wood); treated cellulosic biomass (e.g. CCA-treated wood, creosote-treated wood, C&D debris not meeting the definition of clean C&D wood, plywood, particle board, medium density fiberboard, oriented strand board, laminated beams, finger-jointed trim and sheet goods); carpet-derived fuels and engineered fuels. Engineered fuels (EF) is a non-hazardous replacement for fossil fuels. EF is engineered largely from the above materials and could consist of animal meal, automotive manufacturing byproducts, clean-up debris from natural disasters, processed municipal solid waste, dried/sanitized biosolids, paint filter cake, hospital materials (non-infectious), pharmaceuticals (expired prescriptions), cosmetics, and confiscated narcotics.

The modified kiln system will continue to meet all current emission limits when alternative fuels are used. Actual emissions from the existing cement kiln are continuously monitored for the following pollutants: carbon monoxide (CO), nitrogen oxides (NO<sub>x</sub>), sulfur dioxide (SO<sub>2</sub>), and volatile organic compounds (VOC) measured as total hydrocarbons (THC). There is also a continuous monitor for measuring the stack opacity. The applicant will continue to use all required monitoring systems to ensure compliance with existing and enforceable permit requirements when firing alternative fuels. As required by permit, mercury emissions will be determined based on material balance and particulate matter emissions will be determined by stack test.

The initial application was received on December 19, 2011. The application is under review by the Department and is available for public inspection during normal business hours from 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the following physical office location:

Department of Environmental Protection  
Division of Air Resource Management  
Office of Permitting and Compliance  
111 South Magnolia Drive, Suite 4  
Tallahassee, Florida 32399-2400  
Telephone: 850/717-9000  
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Department of Environmental Protection  
Southwest District Office  
Air Program  
13051 N. Telecom Parkway  
Temple Terrace, FL 33637-0926  
Phone: (813) 632-7600  
Fax: (813) 448-4362

The application can be accessed electronically at the Department's website at:

<http://arm-permit2k.dep.state.fl.us/psd/0530021/00006804.pdf>

**(Notice of Application to be Published in the Newspaper)**