

# Proof of Publication

from the

**SUMTER COUNTY TIMES**

Bushnell, Sumter County, Florida

**PUBLISHED WEEKLY**

STATE OF FLORIDA

COUNTY OF SUMTER

Before the undersigned authority personally appeared

Kathleen Niehaus

Of the Sumter County Times, a newspaper published weekly at Bushnell, in Sumter County, Florida, that the attached copy of advertisement being a public notice in the matter of the

644-1222 SCT PUBLIC NOTICE PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT DEP File No. 1190041-001-AC (PSD-FL-358) Sumter Cement Company, L.L.C. Center Hill Cement Plant Sumter County The Department of Environmental Protection (Department

Court, was published in said newspaper in the issues of December 22nd, 2005.

Affiant further says that the Sumter County Times is a Newspaper published at Bushnell in said Sumter County, Florida, and that the said newspaper has heretofore been continuously published in Sumter County, Florida, each week and has been entered as second class mail matter at the post office in Bushnell in said Sumter County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that he/she has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

*Kathleen Niehaus*

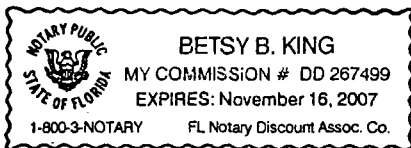
The forgoing instrument was acknowledged before me

This 22nd day of December, 2005

By: Kathleen Niehaus

who is personally known to me and who did take an oath.

*B & B S -*  
Notary Public



644-1222 SCT  
PUBLIC NOTICE

## PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT

DEP File No. 1190041-001-AC (PSD-FL-358)  
Sumter Cement Company, L.L.C.  
Center Hill Cement Plant  
Sumter County

The Department of Environmental Protection (Department) gives notice of its intent to issue an Air Construction Permit to Sumter Cement Company to construct a greenfield portland cement plant in the City of Center Hill in Sumter County. A review under the rules for the Prevention of Significant Deterioration of Air Quality (PSD) and Best Available Control Technology (BACT) determinations were required for nitrogen oxides (NOx), sulfur dioxide (SO2), volatile organic compounds (VOC), carbon monoxide (CO), and particulate matter (PM/PM10). The applicant's name and business address are Sumter Cement Company, L.L.C., Post Office 410, Branford, Florida 32008.

Sumter Cement Company (SCC) proposes to construct a dry process portland cement plant with a nominal capacity of 1,715,500 tons per year (TPY) of clinker. The equipment will include: a primary crusher and conveyance equipment to transport limestone to raw material storage; a raw material storage building for limestone and materials containing silica, alumina, iron, and additives; stackers, reclaimers, and conveyance equipment to raw materials drying and milling; a homogenizing silo; a dry process preheater/calcliner (PH/C) kiln with in-line raw mill capable of producing 5,000 tons per day (TPD) of clinker; a clinker cooler; a coal and petroleum coke mill; conveyance equipment to clinker storage; conveyance equipment to the two finish mills; a house. Numerous baghouses will be included to contain dust from materials conveyance, transfer and handling. A single large baghouse will serve exhaust from the PH/C kiln, raw mill, and clinker cooler.

The heat necessary to convert the raw materials to clinker will be provided primarily by coal and petroleum coke combustion in the main kiln burner and calcium burner. NOx emissions will be minimized by induction firing in a Low NOx main kiln burner, staged combustion in the calciner, and a selective non-catalytic reduction (SNCR) ammonia injection system. SO2 emissions will be controlled by use of inherently low sulfur raw materials, scrubbing by finely divided lime in the calciner, and hydrated lime injection system. CO and VOC emissions will be controlled by promoting complete combustion in the kiln and calciner and minimizing carbon and oily content of raw materials. PM/PM10 from the PH/C kiln, in-line raw mill, and clinker cooler will be controlled by a single large fabric filter baghouse. Emissions from handling, conveyance, and transfer points from baghouses, emissions from raw materials piles, loading operations, transportation, etc. will be controlled by reasonable precautions including paving, road sweeping, watering, planting grass, etc.

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The SCC Plant will be subject to the maximum achievable control technology (MACT) requirements in 40CFR63, Subpart LLL - National Emission Standards for Hazardous Air Pollutants for Portland Cement Manufacturing Industry. In addition, the plant will be subject to the Department's determination of best available control technology (BACT). The BACT determinations are: the PH/C kiln, in-line calciner, and clinker cooler are: 1.95 pounds of NOx per ton of clinker (lb/ton); 0.20 lb SO2/ton; 2.9 lb CO/ton; 0.115 lb VOC/ton; and 0.17 lb PM/PM10/ton. The BACT determinations are among the lowest emission limitations among recent determinations in the state and the country.

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*12/30/05*

Mercury (Hg) emissions will be limited to 184 pounds per year. Initial compliance will be conservatively estimated based on the concentration of Hg in the fuels and raw materials entering the process. The Department has determined that by the second year of operation, reliable mercury continuous emission monitors (Hg-CEMS) will be available and requires that a Hg-CEMS be installed to measure actual emissions. This Hg-CEMS together with another planned in Sumter County represent the first two Hg-CEMS installations required at any facility in the State of Florida. They also represent the first two Hg-CEMS monitors required at cement plants in the United States.

The Department reviewed the applicant's ambient air quality analysis for CO, NOx, SO2, VOC and PM/PM10, pollutants subject to PSD for this project. All pollutants were less than their respective Significant Impact Levels for the Class II area (i.e. all areas except for Class I Chassahowitzka Wilderness Area). Therefore, a PM/PM10 on a 24-hour and annual basis, including nearby, refined increment modeling analysis, including nearby sources, was required for PM10. The results of this analysis are given in the table below. This refined analysis demonstrated compliance with regulatory requirements which include demonstrating compliance with the ambient air quality standards.

Averaging Time: 24-hour  
Maximum Predicted Impact - ug/m3: 29.7  
Allowable Increment - ug/m3: 30  
Compliance with Increment: Yes  
Percent of Increment: 99%

Averaging Time: Annual  
basis for a public hearing and a minimum of 15 days from the date of publication of "Public Notice of Intent to Issue Air Construction Permit." Written comments should be provided to the Department's Bureau of Air Quality.