Florida Department of

Environmental Protection

Memorandum

TO: Rick Bradburn
THROUGH: Armando I. Sarasua, P.E.
FROM: Howard Ard
DATE: February 9, 2012
SUBJECT: Evaluation Summary for The Quikrete Companies, Inc., dba Quikrete of Pensacola; 1130031-012-AO, Santa Rosa County

We recommend issuing a renewal permit to The Quikrete Companies, Inc., to operate their Quikrete of Pensacola facility. This permit follows 1130031-010-AO, effective March 14, 2007, and incorporates the process modifications implemented by construction permit 1130031-011-AC, effective November 17, 2011, which added a cement packer to Packaging Line #2. This permit also adds a new wet gravel and rock packing line that has minimal emissions.

Process Description:
This facility is a concrete dry mix packaging plant consisting of seven storage silos, a rotary drum dryer and packaging operation. The rotary drum dryer is fueled by either natural gas or liquid propane. The facility is limited to 6,000 hours per year of operation and is considered a synthetic minor source of particulate emissions. The facility also includes a small, single-line plastic bagging station for the purpose of loading wet gravel and rock into open-mouth bags with a sealed finish. The potential emissions associated with wet gravel and rock material is negligible.

Pollution Control Equipment:
Particulate emissions from unloading of cement from trucks to silos are controlled by baghouses. Particulate emissions from aggregate storage silos loaded with aggregate from the rotary drum dryer are controlled by baghouses. Particulate emissions from the rotary drum dryer are controlled by a dry cyclone followed by a baffle type wet scrubber. Particulate emissions from the premixed concrete packaging operation are controlled by a baghouse. Particulate emissions from the sand packaging operation are controlled by baghouse.

Environmental Impact:

Airborne Contaminant Emitted	FAC Rule	Estimated Emissions		Allowable Emissions	
		lbs/hr	T/yr	lb/hr	T/yr
PM	N/A	32.87	99.1	N/A	N/A
VOC	N/A	N/A	0.3	N/A	N/A
NOx	N/A	N/A	4.7	N/A	N/A
SO2	N/A	N/A	0.03	N/A	N/A
CO	N/A	N/A	4.0	N/A	N/A
Objectionable Odors	62-296.320(2)	N/A	N/A	None allowed off plant property	
VE	62-297.620(4)	N/A	N/A	Not more than 5% opacity	

Applicable Rules & Regulations:
This source is regulated in accordance with Rules 62-296.414 and 62-296.320(4), F.A.C. This permit imposes restrictions on operating hours and production rates to maintain the status of the facility as a minor source of air emission.

Compliance Monitoring:
Emissions tests are required to show compliance with the standards of the Department. Required tests shall be conducted annually during the federal fiscal year (October 1 – September 30).

Compliance History:
VE and PM tests have been consistently within permitted limits. File review shows two enforcement actions were taken during the last five years. Enforcement action taken in 2010 was due to a third cement bagging line being attached to a baghouse without obtaining a permit. To correct this deficiency, management applied for and executed an after-the-fact permit 1130031-011-AC, effective November 17, 2011, which added a cement packer to Packaging Line # 2. Enforcement action in 2011 was due to exceedance of the maximum limit on production rate and operating an unpermitted process. A warning letter was issued June 27, 2011 (WL NWAP 113-1880), short form consent order (OGC File No. 11-1356-57-AP) was executed October 31, 2011 and the case was closed. The unpermitted process non-compliance issue was corrected by the construction permit referenced above.

Fee Summary:
This is a Type AO 2A minor source with stack test. Correct fee of $1,500.00 was submitted.

HA/c