

Memorandum

Florida Department of Environmental Protection

TO: Clair Fancy

THROUGH: Al Linero *Al Linero 6/20*

FROM: Teresa Heron

DATE: June 20, 1997

SUBJECT: Rinker Materials Corporation, 0250014-002-AC
Modification of Existing Cement Facility
Draft Permit

Attached is the construction permit for the modification of this facility. The new permit will replace current construction permits for this wet process cement plant which was originally built in the 1950's. The modified plant includes a coal/ liquid fuel/ gas-fired, dry process cement kiln with a preheater, precalciner, and clinker cooler. Air pollution control is achieved by fabric filters (baghouses) for PM/PM₁₀ from the kilns and coolers; absorption of sulfur compounds and metals into the product; and combustion controls for CO, volatile organic compounds (VOC), and nitrogen oxides (NO_x).

The wet process plant has a capacity of 650,000 TPY of clinker while the modernized plant will have a capacity of 1,250,000 TPY of clinker. Switching to the dry process will make the operation more efficient because fuel will not be wasted evaporating a lot of water. Also the presence of the precalciner will allow for better distribution of the thermal load. The result is that the modernized plant is able to "net out" of PSD Review.

The plant burns and will continue to burn a wide assortment of materials such as unused diapers, small amounts of stabilized sewage sludge, etc. and will use some petroleum coke as fuel. They have provided us with reasonable assurance that they can burn these materials and meet our rules and permit conditions. The precalciner acts somewhat like an afterburner to insure complete combustion of materials introduced through the kiln feed shelf, while the extra sulfur, vanadium, and nickel from petcoke should be consolidated into the clinker. Our understanding is that there will be no wasting of cement kiln dust.

I recommend your approval and signature