

November 8, 1990

Mr. C.H. Fancy, P.E.
Chief, Bureau of Air Regulation
Florida Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

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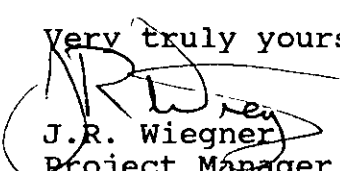
Subject: Broward County - Air Permit Applications
North/South Broward Resource Recovery Facilities
Lime Silo and Flyash Dust Collectors

Dear Mr. Fancy:

Please find enclosed the information requested by your office in writing on October 24, 1990, regarding the air permit applications for the lime silos and flyash dust collectors at the North and South Broward Resource Recovery Facilities. This should provide the additional information needed to continue the processing of this application.

We appreciate the expeditious review your department has given these permit applications to date and hope that this review can proceed in a timely fashion. If any additional information is required to continue this review, please feel free to call me at 305-581-6606.

Very truly yours,


J.R. Wiegner
Project Manager

448.JRW/th
encl.

cc: Mirza Baig, FDER
Paul Claerbout, NBRRF
Chuck Faller, SBRRF
Frank Ferraro, WTI-Hampton
Isidore Goldman, FDER-SE Dist.
Tom Kirk, SBRRF
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Mark Kirchman, NBRRF
Oakley Hicks, RUST
Mark Green, RUST
Tom Henderson, BCRRO
Dave Cerrato, MPI
A. Limero, BCEQB

*KBN - Ken Keneski
904-331-9000*

Date : November 6, 1990

SUBJECT: NORTH/SOUTH BROWARD RESOURCE RECOVERY FACILITIES
AIR PERMIT APPLICATIONS FOR LIME SILOS AND FLYASH
DUST COLLECTORS
ADDITIONAL INFORMATION REQUESTED BY FDER (10/24/90)
IN SUPPORT OF THE AIR PERMIT APPLICATIONS REF-
ERENCED IN THE LETTER OF 10/24/90 AS FOLLOWS:

Wheelabrator North Broward Inc.
(Lime Silo) - AC 06-186998
(Flyash Dust Collector) - AC 06-186997

Wheelabrator South Broward Inc.
(Lime Silo) - AC 06-187000
(Flyash Dust Collector) - AC 06-187001

1. The 750 ACFM air flow rate comes from the pneumatic conveying fan that is mounted on the lime truck. This is a typical size of a fan on a lime truck.

The air-to-cloth ratio for the Model 1016 BA-108 Jet III dust collector with one lime truck unloading will be 3.3:1. With two lime trucks unloading, the air-to-cloth ratio will be 6.6:1. This is based on 226 ft² of cloth area.

2. The spray dryer reaction products that may enter the flyash dust collector are:

- (1) calcium sulfate - CaSO₄
- (2) calcium chloride - Ca(Cl)₂
- (3) calcium hydroxide - Ca(OH)₂
- (4) calcium fluoride - CaF₂

3. The air-to-cloth ratio for the Mac dust collector, Model 120 LST 100 is 4.9:1, based on 8000 ACFM with 1620 ft² of cloth area.

4. Due to the small size of this equipment and the small quantity of emissions generated, these dust collectors are typically not required to be tested in the same manner as is done for the larger equipment and emission sources. These sources at these types of facilities are typically required to perform visible emission evaluations rather than use any type of test method. This, of course, does not require any actual sampling locations like those required at the baghouse outlet or spray dryer inlet.