

OGDEN MARTIN SYSTEMS  
OF HILLSBOROUGH INC.

40 LANE ROAD  
ON 28th  
FAIRFIELD, NEW JERSEY 07007-2811  
(201) 852-9000



June 12, 1987

HC-0861L  
C-1005

Mr. Hamilton S. Oven, Jr., P.E.  
State of Florida  
Department of Environmental Regulation  
2600 Blainstone Road  
Tallahassee, Florida 32301

DER  
JUN 16 1987  
BAQM

Reference: Supplemental Information Power Plant  
Site Certification No. PA83-19

Dear Mr. Oven:

At the request of the Hillsborough County Environmental Protection Commission, we are submitting additional back-up information covering the dust suppression system for the ash handling building of the Hillsborough County Solid Waste Energy Facility. Documents included for your review are a marked copy of DER forms 17-1.201 (1), Application To Operate and Construct Air Pollution Sources, along with technical data describing the dust suppression system selected for the ash handling building.

This dust suppression equipment was added to the final design of the ash handling building to ensure that there would be no visible emissions from this plant area. Operation of this equipment observed during the recent Performance Test have verified that there are, in fact, no visible emissions.

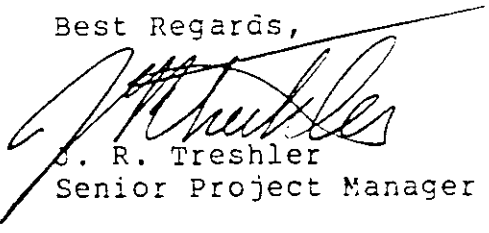
At the request of the Hillsborough County EPC, we have supplied this additional information to ensure that our permit application is complete. Accordingly, please consider this a formal request by OMSH on behalf of Hillsborough County that in accordance with DER regulation 172.700, paragraph (3)-(D) that this dust suppression unit be classified under the 5% opacity standard and that the testing requirements be waived, since the operating flow is 9,500 ACFM.

It is my understanding of the regulations that DER has the authority to request a visual observation of the performance of this unit. If it is DER's desire to have this visual observation made, OMSH would be glad to accommodate this request as verification of the unit's proper operation.

June 12, 1937

Once again, I would like to thank you for your continued help in the permitting process of our facility. I will contact you shortly to verify that the data submitted with this request is proper and sufficient to allow processing of this added information.

Best Regards,



C. R. Treshler  
Senior Project Manager

JRT:hn  
Attachment

cc: R. Hauser  
P. Stoller  
D. Strobridge  
D. Smith  
T. Smith  
D. Elias  
D. Dee  
D. Knight  
J. Campbell - HCEPC  
V. San Ajustin - HCEPC

SUPPLEMENTAL INFORMATION  
ASH BLDG. DUST SUPPRESSION BAG HOUSE  
HILLSBOROUGH COUNTY FLORIDA  
SOLID WASTE ENERGY RECOVERY PROJECT

# Flex-Kleen

Research-Cottrell

## OPERATING, EQUIPMENT, AND CONSTRUCTION DATA

CUSTOMER: Fairfield Engineering Co.

P.O. NO.: DU-365D

FKO NO.: 12-84-30564

MODEL NO.: 84-WRBC-144(IIIG)

QTY.: 1

DATE: 02/21/86

TAG INFO.: P.O. #DU-365D

DRAWING NO.: A-86JC-040

DOC.REV.DATE: 04/11/86

DOC.REV.MARK: [a]

The information below will be considered CERTIFIED and no further transmittals of this document will be made unless there are changes agreed to between the customer and Flex-Kleen.

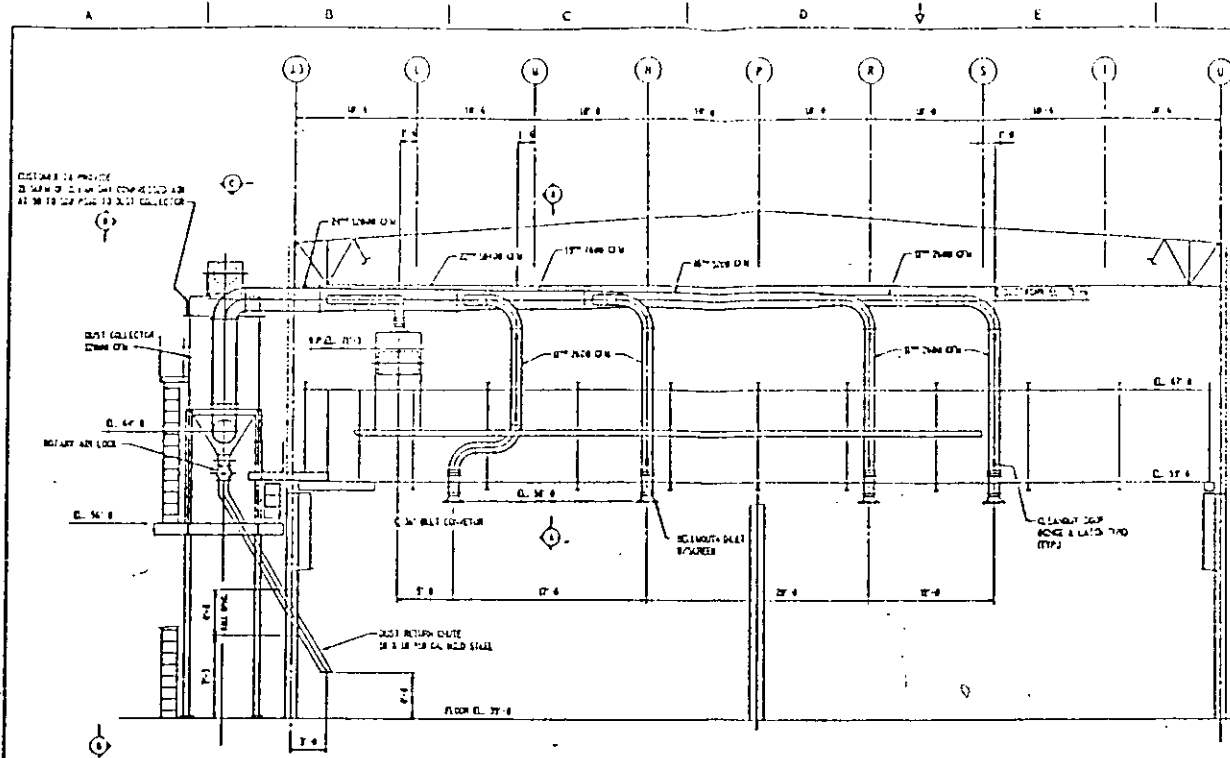
### OPERATING DATA

Volume: 9,500 acfm<sup>1</sup>      Cloth Area: 1,526 ft<sup>2</sup>      Ratio: 6.23/1<sup>1</sup>  
Dust: Fly Ash  
Dust Size:  
Dust Density:      lb/cu.ft.      Dust Loading:      gr/cu.ft.  
Temperature: 70°F      Dew Pt.:      Deg.F  
(collector temperature must be kept well above dew point)  
End Use: Unknown  
Weight: 5450 lbs.      Location: Outdoors  
Design Press.: 17" W.G.      Operating Press.: 10" W.G. (Neg.)  
Compressed Air Reqmts.: 21.0 scfm @ 90-100 psig  
(compressed air to be clean, dry, and oil free)

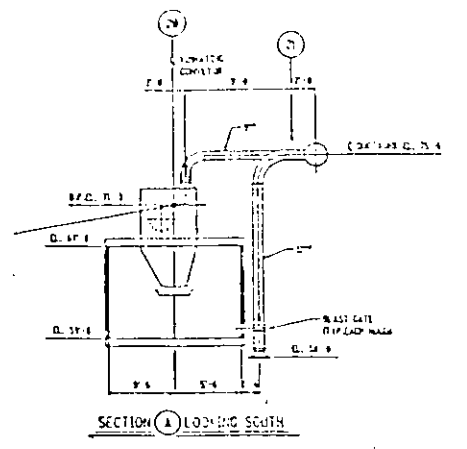
### EQUIPMENT DATA

Timer(s): T16054/NEMA-4 (M14507)  
(electrical reqmts. 120V, 50/60 Hz, 1 phase, 100 w each)  
Diaph. Valves: M14909      Bag Cages: C10111  
Solenoid Valves: E24104      Bag Clamps: M12803  
Venturis: M11038      Bag Cups: M10725  
Filter Bags: 16oz. Polyester/singed (B25614)

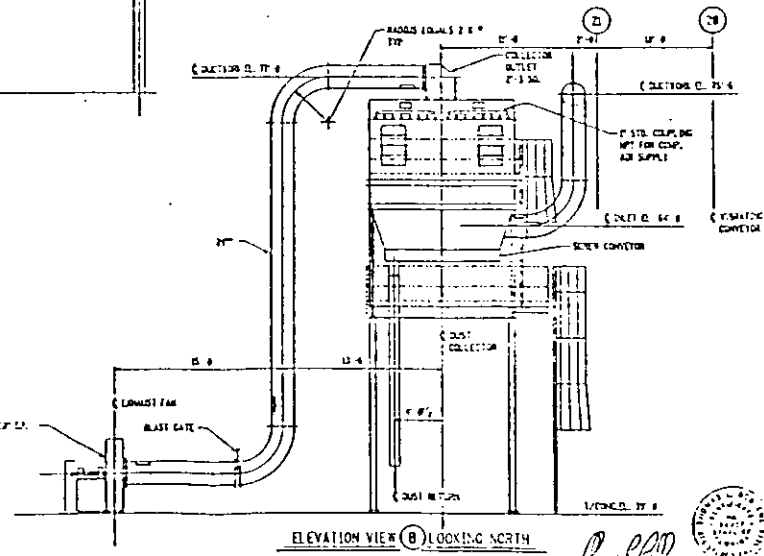
1 Field Modification derated from 12,000 acfm to 9,500 acfm by changing motor drive sheeves.



ELEVATION VIEW LOOKING WEST IN ASH HANDLING BUILDING  
DUST CONTROL SYSTEM - TAG NO. ME-C-1



SECTION A LOOKING SOUTH

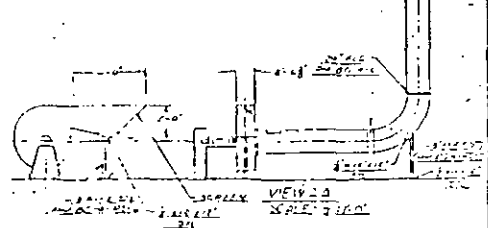
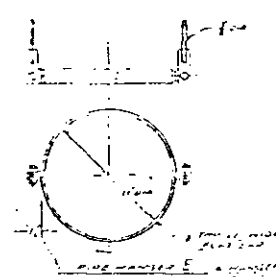
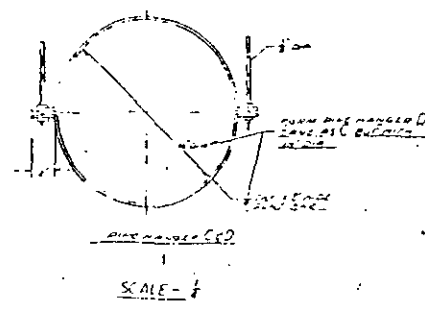
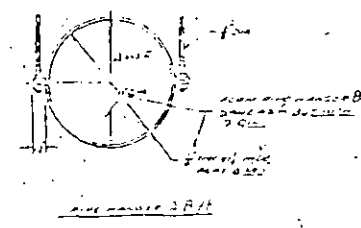
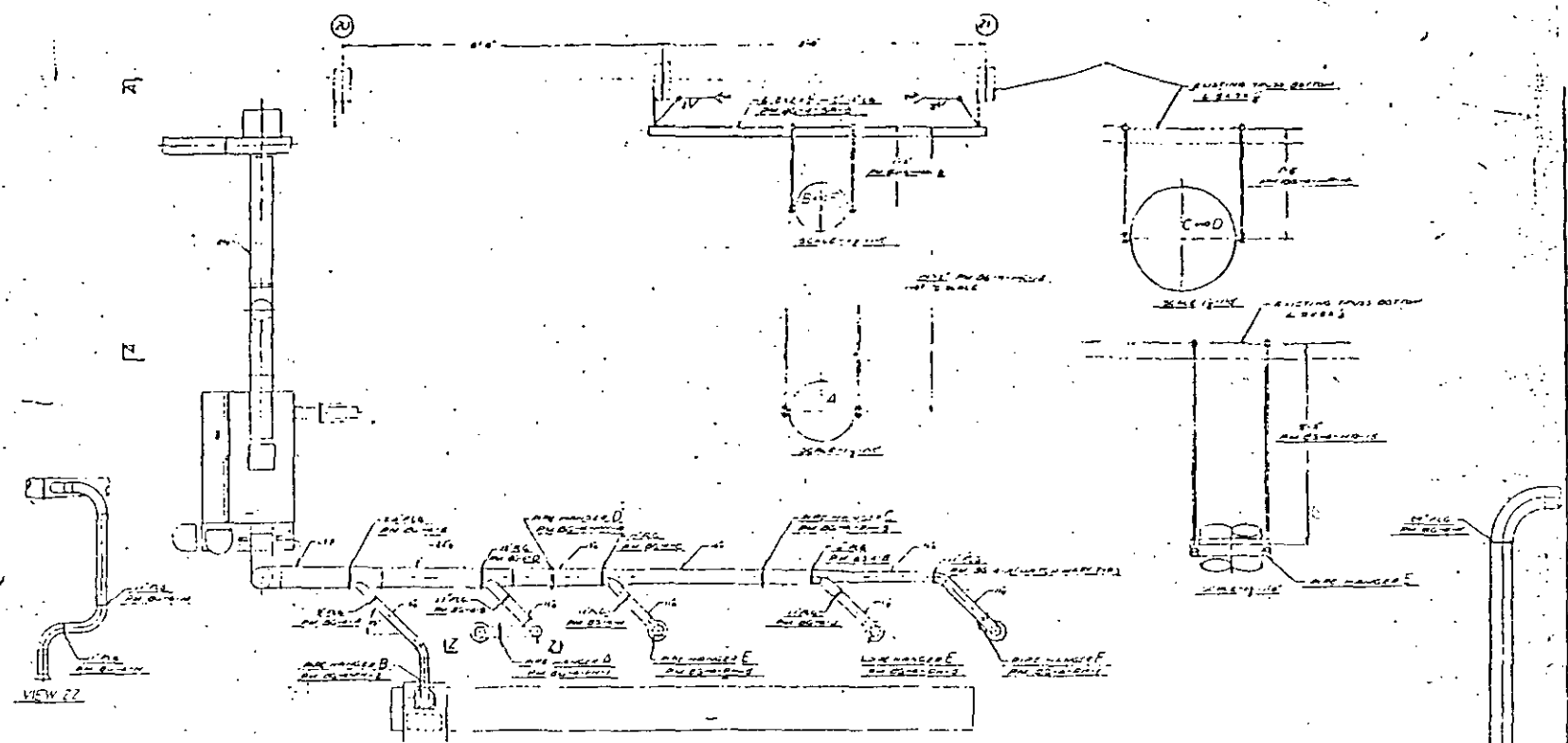


ELEVATION VIEW B LOOKING NORTH

- NOTES:
1. DUST GATE AT AIR LOCK MUST BE POSITIVELY CLOSED ON STACK UP UNITS. MATERIAL ON BAGS HAS TO BE REMOVED ON BAGS AT DUST COLLECTOR.
  2. ALL DUSTHOLDERS TO BE 1/2\"/>

<p>REVISIONS</p> <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>										NO.	DATE	DESCRIPTION				<p>THE FAIRFIELD ENGINEERING CO. MARIETTA, OHIO</p>		<p>PROJECT NO. E-15-23699-200</p>	
NO.	DATE	DESCRIPTION																	



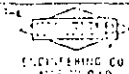


APPROVED FOR THE CONTRACTOR  
 DATE: 10/15/50  
 BY: [Signature]

APPROVED FOR THE CONTRACTOR  
 DATE: 10/15/50  
 BY: [Signature]

- 1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
- 2. ALL DIMENSIONS ARE TO BE TAKEN TO THE CENTER OF THE HOLE OR THE CENTER OF THE SHANK UNLESS OTHERWISE SPECIFIED.
- 3. ALL DIMENSIONS ARE TO BE TAKEN TO THE CENTER OF THE HOLE OR THE CENTER OF THE SHANK UNLESS OTHERWISE SPECIFIED.
- 4. ALL DIMENSIONS ARE TO BE TAKEN TO THE CENTER OF THE HOLE OR THE CENTER OF THE SHANK UNLESS OTHERWISE SPECIFIED.

NO.	DESCRIPTION	QUANTITY	UNIT	REMARKS
1	...	...	...	...
2	...	...	...	...
3	...	...	...	...
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DATE: 10/15/50	BY: [Signature]
SCALE: 1	...
...	...

HILLSBOROUGH COUNTY FLORIDA  
SOLID WASTE ENERGY RECOVERY PROJECT  
MARKED TO REFLECT ASH BLDG. DUST SUPPRESSION BAG HOUSE  
SUPPLEMENTAL INFORMATION

# NOTE:

PSD-FL-104 WAS  
MODIFIED TO BECOME  
PSD-FL-121 IN 1987.  
SEE FILE FOR PSD-FL-104  
FOR INFORMATION PRIOR TO  
JUNE 1987.