EXHIBIT A

DRAFT PSD PERMIT MODIFICATION FOR HILLSBOROUGH COUNTY RESOURCE RECOVERY FACILITY (PSD-FL-104)

Page 1, Paragraph 3

This modification to Permit No. PSD-FL-104 addresses the increased emissions of nitrogen oxides and sulfuric acid mist from the stack at the resource recovery facility. It also addresses the particulate emissions from the ash residue facility and dust suppression baghouse. Except as expressly provided in the specific conditions contained herein, all of the other provisions of Permit No. PSD-FL-104 remain in effect.

Specific Conditions

- 1. Specific Condition 1.a.(5) in Permit No. PSD-FL-104 establishes an emission limitation for nitrogen oxides. It is modified to read as follows:
 - (5) Nitrogen Oxides: 0.34 gr/dscf-12%, or 6.4 lb/ton, whichever is more restrictive.
- 2. Specific Conditions 1.a.(9) and 1.b.(2)i concerning sulfuric acid mist emission limitations and compliance test requirements are deleted.
- 3. Pursuant to Rule 17-2.700(3)d, FAC, a standard of 5% opacity is hereby set for the minor particulate source control equipment/baghouse (i.e., the ash residue building dust suppression system). The compliance test requirements for the ash handling facility will be waived in accordance with Rule 17-2.700(3)d, FAC.

DSD/vc:Hills-RR2 Copied: CHF/BT Barry andrum B112/87mg CARLTON, FIELDS, WARD, EMMANUEL, SMITH, CUTLER & KENT, P.A.
P.O. DRAWER 190
TALLAHASSEE, FLORIDA 32302



CLAIR H. FANCY
DEPUTY CHIEF
BUREAU OF AIR QUALITY MANAGEMENT
DEPARTMENT OF ENVIRONMENTAL REGULATION
TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400

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(813) 272-6674



MARC J. ROGOFF

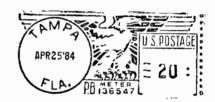
RESOURCE RECOVERY PROGRAM ADMINISTRATOR
DEPARTMENT OF SOLID WASTE

DIVISION OF PUBLIC WORKS AND SAFETY HILLSBOROUGH COUNTY

POST OFFICE BOX 1110
TAMPA, FLORIDA 33601

HILLSBOROUGH COUNTY

DEPARTMENT OF SOLID WASTE
P.O. BOX 1110
TAMPA, FLORIDA 33601



Clair Fancy
Department of Environmental Regulation
Bureau of Air Quality Monitoring
2600 Blair Stone Road
Tallahassee, Florida 32301



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PM

6-9-87 Atlanta, Ga File CODT

REGION IV

345 COURTLAND STREET ATLANTA, GEORGIA 30365

JUN - 8 1987

4APT/APB-1jf

Mr. Clair H. Fancy, P.E. Deputy Chief Bureau of Air Quality Management Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32301

DER JUN 1 1 1987 BAQM

Re: Permit Modification Request for Hillsborough County RRF (PSD-FL-104)

Dear Mr. Fancy:

This is in reference to your May 5, 1987, letter transmitting a copy of Ogden Martin Systems of Hillsborough, Incorporated's May 1, 1987, request for a modification to the above-referenced permit. Their request is to raise the emission limits for nitrogen oxides and sulfuric acid mist based on recent stack test results. Your May 5, 1987, letter solicited our comments on Odgen Martin's proposed PSD permit modification.

We concur that the permit be modified in accordance with their request and justification for nitrogen oxides. However, we believe the results of their tests for sulfite concentration as an indication of sulfuric acid mist by EPA reference method 8 is biased high due to concentrations of fluoride and ammonia in the flue gases. As no acceptable test method exists for measuring sulfuric acid mist emissions from municipal solid waste incinerators, and these emissions are estimated based on sulfur dioxide concentrations, we propose that no emissions limits for sulfuric acid mist be included in the revised permit. In this case, we do not feel that such an emissions limit is appropriate since compliance with such a limit could not be determined.

If you have comments or questions regarding this letter, please contact Mike Brandon of my staff at (404) 347-2864.

Sincerely,

Buce P. Willer

Bruce P. Miller, Chief Air Programs Branch Air, Pesticides, and Toxics Management Division

copled:

6-11-87

Barry Tom Pradeep

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET

ATLANTA, GEORGIA 30365

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300

AIR-4

Mr. Clair H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality Management
Twin Towers Office Bldg.
2600 Blair Stone Rd.
Tallahassee, FL 32301

Clark

6-11-87

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JUN-9'87 PENALTY U.S. PUSTAGE OF STATE OF STATE

Requests for a hearing must be postmarked not later than 30 days from the date of this notice and sent to:

(DER contact)

CHF

A special set of circumstances is applicable to this PSD permit application. A permit to construct the source was issued by the Power Plant Siting Board on under the Florida Power Plant Siting Act. At that time, DER considered such a permit to constitute a PSD permit issued under Florida's PSD regulations, which have been approved by EPA. Such approval by EPA transferred permit signature authority for PSD sources from EPA to DER. Subsequent to the issuance of that permit, EPA determined that Power Plant Site Certifications, because of certain procedural differences, do not constitute PSD permits under the DER regulations, and thus do not satisfy the requirements of the federal Clean Air Act. In order to rectify this situation, EPA withdrew aurhority from DER to issue PSD permits to such sources, but delegated to DER the authority to process the PSD applications in preparation for issuance of a permit by EPA. sile Grtification

Since Florida had already issued a construction permit to [Hillsborough/ Pinellas] County, the source had begun construction prior to EPA's determination that the Florida procedure is inadequate. Consequently, EPA issued an administrative order under Section 167 of the Clean Air Act, which required [Hillsborough/Pinellas] County to either immediately apply for a PSD permit or cease construction. Because of the special circumstances surrounding this application, EPA determined that the determination of best available control technology for this source could be made as of the date of the original complete application to Florida for a Power Plant Site Certification permit. Therefore, the draft permit and preliminary determination reflect the best available control technology as of (date) the date of that

application.

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Prescribed by GSA FPMR (41 CFR) 101-11.206

U.S.G.P.O.: 1983 -421-529/320

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Appendix H-1, Permit History/ID Number Changes

Hillsborough County
Hillsborough County Resource Recovery Facility

DRAFT Permit No.: 0570261-002-AV

Facility ID No.: 0570261

Permit History (for tracking purposes):

E.U.					`	
ID No	<u>Description</u>	Permit No.	<u>Issue</u>	Expiration Date	Extended Date 1,2	Revised Date(s)
			<u>Date</u>			
-001	MSW Incinerator #1	PA-83-19	1/1/84			6/17/86
		PSD-FL-104	7/7/86			
		AO29-206279	6/17/94	8/1/97		
		PSD-FL-121	10/14/87	3/31/88		1/20/95, 6/29/98
-002	MSW Incinerator #2	PA-83-19	1/1/84			6/17/86
		PSD-FL-104	7/7/86			
		AO29-206279	6/17/94	8/1/97		
		PSD-FL-121	10/14/87	3/31/88		1/20/95, 6/29/98
-003	MSW Incinerator #3	PA-83-19	1/1/84			6/17/86
		PSD-FL-104	7/7/86			
		AO29-206279	6/17/94	8/1/97		
		PSD-FL-121	10/14/87	3/31/88		1/20/95, 6/29/98
-100	Ash Building & Handling System	PSD-FL-121(B)	6/29/98	3/30/2003		
-101	Lime Storage Silo	PSD-FL-121(B)	6/29/98	3/30/2003		
-102	Activated Carbon Storage Silo	PSD-FL-121(B)	6/29/98	3/30/2003		
	,	` ,			•	

(if applicable) ID Number Changes (for tracking purposes):

From: Facility ID No.:

To: **Facility ID No.**: 0570127

Notes:

1 - AO permit(s) automatic extension(s) in Rule 62-210.300(2)(a)3.a., F.A.C., effective 03/21/96.

2 - AC permit(s) automatic extension(s) in Rule 62-213.420(1)(a)4., F.A.C., effective 03/20/96.

{Rule 62-213.420(1)(b)2., F.A.C., allows Title V Sources to operate under existing valid permits that were in effect at the time of application until the Title V permit becomes effective}

Permitting Application							
Permit #:	PATS:	Issue	:	Expir	·e:		
Project #/Name	Owr	ner/Company		Type/Su	b Receive		
001/HILLSBOROUGH CO RRF / / / / / / / / / / / / / / / / / /	HIL	LSBOROUGH CTY.	RESOURCE	AV /00	17-JUN-1996		

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Table I-1

Rovisod 12/30/86

BAQM

Hillsborough County Resource Project Proposed Annual Emmission Rates

Pollutant	Proposed Maximum Emission Rate (Ton/Yr)	Significant Emission Rate for PSD Applicability	Significant Emission Rate for Nonattainment Applicability
Particulate Matter (PM) (1)	90	N/A	196
olatile Organic (ampounts Hydrocarbons (VOG) (1)	44	N/A	100
Sulfur Dioxide (SO2)	701	40	B/A
Carbon Monoxide (CO)	395	100	N/A
Nitrogen Oxides (NOx)	657	40	NIK
Lead (Pb)	11	0.6	+
Mercury (Hs)	1.1	0.1	+
Beryllium (Be)	0.003	0.0004	+
Pluorides	13	3	+ +
Sulfuric Acid Mist	17	7	+
lydrogen Chloride (ECl) (2)		_	-

⁽¹⁾ Nonattainment Pollutant

⁻⁽²⁾ RCl is not a regulated pollutant but was included at the department's request

Table II-1

Hillsborough County Resource Recovery Project
Source Parameters

PONDON 12/30/86

	UTM-E	UTM-N	S0 ₂	Stack Height	Temp.	Exit Vel.	Stack Dia.
Source	(km)	(km)	(g/s)	(m)	(K)	<u>(m/s)</u>	<u>(m)</u>
PSD Sources			•				
Hillsborough Co. RRF	368.2	3092.7	29.6	67.0	494	16.9	3.50
Pinellas RRF 1-3	335.2	3084.1	31.5	49.1	505 500	26.8	2.37
McKay Bay RRF TECO Big Bend	360.0 361.9	3091.9 3075.0	21.4 8598	45.7 149.4	500 426	21.3 15.6	1.91 7.00
1600 BIg Bellu	301.9	3073.0	0390	147.4	420	15.0	7.00
NAAQS Sources			•				
FPC Bartow	342.4	3082.7	722.2	91.4	408	44.0	3.35
FPC Higgins	336.5	3098.5	286.7	53.0	422	10.4	3.81
FPC Anclote #1	324.9	3119.0	1631.9	152.1	416	50.0	3.66
FPC Anclote #2	324.9	3119.0	816.0	152.1	416	28.3	3.66
TECO Hooker Pt. #1)	358.0	3091.0	41.30	85.4	402	18.2	3.40
TECO Hooker Pt. #2)	358.0	3091.0	41.30	85.4	402	18.2	3.40
TECO Hooker Pt. #3)	358.0	3091.0	37.00	85.4	397	11.5	3.70
TECO Hooker Pt. #4)	358.0	3091.0	57.00	85.4	397	11.5	3.70
TECO Hooker Pt. #5)	358.0	0.1908	84.00	85.4	402	18.2	3.40
TECO Hooker Pt. #6)	358.0	3091.0	107.00	85.4	436	17.9	2.90
TECO Gannon #1	360.0	3087.5	282.5	93.3	438	22.5	3.70
TECO Gannon #2	360.0	3087.5	282.5	93.3	438	32.4	3.10
TECO Gannon #3	360.0	3087.5	321.4	93.3	427	35.4	3.20
TECO Gannon #4	360.0	3087.5	421.6	93.3	443	24.6	2.90
TECO Gannon #5	360.0	3087.5	513.4	93.3	415	20.6	4.50
TECO Gannon #6			853.6	93.3	415	23.7	5.40
General Portland	358.0	3090.6	349	44.3	473	6.6	4.72
Gardinier	363.4	3082.4	473.3	29.4	333	9.1	2.10
Gardinier	363.4	3082.4	-210.26	36.5	344	11.8	2.00

I-1
Table II-1 (cont.)

Source	UTM-E (km)	UTM-E (km)	SO ₂ (g/s)	Stack Height (m)	Temp. (K)	Exit Vel. (m/s)	Stack Dia. (m)
	<u> </u>	· · · · · · · · · · · · · · · · · · ·	\8/0/	\/	(()	(416)	(ш/
AMAX (Pt. No.)	393.8	3096.3	•••				
			12.0	30.5	335.1	12.0	1.37
01			3.3	24.4	315.8	8.9	1.67
02			17.6	46.3	308.6	11.0	1.76
03	-		29.0	45.7	315.6	15.9	1.76
05			2.8	6.1	550.2	15.3	0.40
19			1.4	3.4	605.2	20.2	0.37
20			27.1	46.3	298.0	13.1	1.76
26 - 28			2.1	10.6	605.2	15.3	0.36
29							
CF Industries (Pt. No.)	380.0	3115.7					
01			6.1	7.5	560.0	19.7	1.07
10			6.2	28.7	316.3	7.2	3.05
11			9.2	54.9	321.9	12.6	2.79
12			13.7	54.9	315.2	9.8	2.79
13			13.7	54.9	324.7	10.5	2.79
Chloride Metals (Pt. No.)	361.8	3008.3					
01			10.1	32.2	346.7	27.8	0.58
04			10.1	29.9	363.0	14.4	0.61
Columbia Paving	366.7	3077.8	3.7	12.2	339.7	22.3	1.37

又-1 Table *H-*I (cont.)

	UTM-E	UTM-E	SO ₂	Stack Height	Temp.	Exit Vel.	Stack Dia.
Source	(km)	(km)	(g/s)	(m)	(K)	(m/s)	<u>(m)</u>
Columbus Company	361.9	3077.8	4.8	12.6	449.7	20.0	1.24
Couch Construction	364.3	3098.1	3.3	10.4	390.8	17.2	1.41
Delta Asphalt	372.1	3105.4	4.8	8.4	381.3	20.6	1.17
Gulf Coast Lead co.	363.9	3093.8	47.2	29.6	347.4	24.9	0.62
IMC Port Sutton	360.1	3087.5	41.5	19.8	338.6	10.5	2.41
		252	V- V-			1015	_,,,
Thatcher Glass (Pt. No.)	361.2	3103.3	2.6	41.1	694.1	9.4	1.52
Furnace No. 1	33312	333313	2.6	41.1	656.9	11.4	1.52
Furnace No. 2			2.0	42.62	030.3		1.72
ruruuce nov z							
Nitram	363.2	3089.0	3.1	27.4	505.2	10.8	1.37
National Gypsum (Pt. No.)	347.3	3082.7					
Dryer No. 1/Zone 1			0.66	12.5	388.6	8.5	1.07
Zone 2			0.66	12.5	424.7	9.1	0.91
Zone 3			0.66	12.5	330.2	9.1	0.91
Dryer No. 2/Zones 1&2			1.0	10.1	421.9	20.7	0.76
Zone 3			0.5	10.1	408.0	10.4	0.76
Zone 4			0.5	11.3	394.1	25.9	0.91

Table 11-2
Hillsborough County Resource Recovery Project
Proposed Maximum Hourly Emission Rates Used
in Modeling

Pollutant	Emission Rat	es (1) g/s
Particulate Matter	0.38	3.5
Sulfur Dioxide	3.2	29.6
Carbon Monoxide	1.8	16.6
Nitrogen Oxides	3.0	27.7
Lead	0.048	0.444
Hydrocarbons (non-methane)	0.2	1.85
Mercury	0.0052	0.048
Beryllium	0.0000131 0.00131	0.000121
Fluorides	0.06	0.554
Sulfur Acid Mist	0.0768	0.710
Hydrogen Chloride	4.0	37.9

⁽¹⁾ Based on a throughput of 110 percent of design capacity and the operation of four incinerators

Table 11-3
Maximum Air Quality Impacts Of The RRF
For Comparison To The De Minimus Ambient Levels

Pollutant	Maximum Modeled Concentration (1)(ug/m ³)	De Minimus Ambient Impact Level (ug/m ³)
SO ₂ (24-hour)	21.6	13
CO (8-hour)	16.3	575
NO ₂ (Annual)	1.0	14
Lead (24-hour)	o·33 0·32	0.1
Mercury (24-hour)	0.035	0.25
Beryllium (24-hour)	0.000088	0.00050
Fluorides (24-hour)	0.405	0.25
Sulfuric Acid Mist	0.52	- -
PM (2)	2.6	10

⁽¹⁾ Highest second-high concentration assuming four incinerators

⁽²⁾ PM included for informational purposes.

Table 11-4

Hillsborough County 1983 Monitoring Data in the Vicinity of the Proposed Resource Recovery Facility

			ith Respect posed Facility	Averaging	Concentration		
Pollutant Pollutant	Site	Direction	Distance (km)	Time	Category	Concentration (ug/m ³)	
SO ₂	4360-052	278°	9.9	3-hour	Second-high	493	
_				24-hour	Second-high	86	
				Annual	Highest	16	
NO ₂	4360-052	278°	9.9	Annual	Highest	35	
СО	4360-052	278°	9.9	1-hour	Second-high	12,600	
				8-hour	Second-high	5,700	
Lead	1800-082	285°	3.3	Calendar	Highest	0.8	
				quarter			
PM(1)	1800-082	285°	3.3	24-hour	Second-high	115	
				Annual	Highest	54	
03(1)	4360-035	259°	11.5	1-hour	Second Daily H	ligh 281	

⁽¹⁾ Nonattainment Pollutants

又-5 Table *H*-5

Comparison of New Source Impacts with PSD Increments

Pollutant and Averaging Time	PSD Class II Increment (ug/m ³)	Predicted Increased Concentration (ug/m ³)	Increment Consumed (%)	PSD Class I Increment (ug/m³)	Predicted Increased Concentration (ug/m ³)
so ₂					
3-hour	512	359	73	25	<1
24-hour	91	87	96	5	<1
Annua1	20	5	25	2	<<1

T-b Table H-6

Comparison of Total Impacts with Ambient Air Quality Standards

Pollutant and Averaging Time	Maximum Impact Project	Maximum Impacts All Sources (ug/m ³)	Existing Background (ug/m ³)	Maximum Total Impact (ug/m ³)	Plorida AAQS (ug/m³)
SO ₂ 3-hour	40	453	493	946	1300
24-hour Annual	22 1	163 9	86 16	249 25	260 365 60 80
CO 1-hour 8-hour	32 16	- -	12600 5700	12632 5716	40,000 10,000
NO ₂ Annual	1	-	35	36	100
Lead 3-months quarterly	0.33 1	-	0.8	0.8 1.1	1.5

1 The maximum quarterly average was conservatively estimated by using the maximum 24 hour average

MEMORANDUM

DATE: SEP - 9 1986

SUBJECT: PBD Permit For The Hillsborough County Energy Recovery Pacility

PROM: Jack E. Ravan

Regional Administrator

Deputy Regional Administrator

TO: Thea McManus (PM-223) Federal Register Officer

On July 7, 1986, the Regional Administrator for Region IV issued a Prevention of Significant Deterioration construction permit to Hillsborough County. The effective date of this permit was August 11, 1986, and allows for the construction of a 1200 ton per day municipal solid waste incineration facility.

This Federal Register notice announces the issuance of this PSD permit. This is not a "rule" or "rulemaking" under Executive Order 12291 and therefore cannot be "major" under that Executive Order. OMB review is not required, nor is review by headquarters necessary.

Please have this notice forwarded for publication in the "Notices" section of the <u>Federal Register</u>. Questions may be directed to Michael Brandon at (FTS) 257-4253.

PERMIT TO CONSTRUCT UNDER THE RULES FOR THE PREVENTION OF SIGNIFICANT DETERIORATION OF AIR QUALITY

Pursuant to and in accordance with the provisions of Part C, Subpart 1 of the Clean Air Act, as amended, 42 USC §7470 et. seg., and the regulations promulgated thereunder at 40 CFR §52.21, as amended at 45 Ped. Reg. 52676, 52735-41, (August 7, 1980).

Hillsborough County Department of Solid Waste

is, as of the effective date of this permit (PSD-PL-104) authorized to construct a stationary source at the following location:

0.6 miles North of State Route 60 between Faulkenburg Road and the TECO transmission line corridor in Hillsborough County, Florida

Upon completion of authorized construction and commencement of operation/production, this stationary source shall be operated in accordance with the emission limitations, sampling requirements, monitoring requirements and other conditions set forth in the attached Specific Conditions (Part I) and General Conditions (Part II)

This permit is hereby issued on JUL 2 1986 and shall become effective thirty (30) days after receipt hereof unless a petition for administrative review is filed with the Administrator during that time. If a petition is filed any applicable effective date shall be determined in accordance with 40 CFR §124.19(f)(1).

If construction does not commence within 16 months after the effective date of this permit, or if construction is discontinued for a period of 18 months or more, or if construction is not completed within a reasonable time, this permit shall expire and authorization to construct shall become invalid.

This authorization to construct/modify shall not relieve the owner or operator of the responsibility to comply fully with all applicable provisions of Federal, State, and local law.

				
Regional	Admir	ile	Lri	ito:

Best Available Copy

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PSD PERMIT FOR THE

HILLSBOROUGH COUNTY ENERGY RECOVERY FACILITY
BRANDON, FLORIDA

AGENCY: Environmental Protection Agency.

ACTION: Notice.

SUMMARY: Notice is hereby given that the Prevention of Significant Deterioration (PSD) permit issued to the Hillsborough County Department of Solid Waste on July 7, 1986, became effective on August 11, 1986. The permit was issued for the construction of a 1200 ton per day municipal solid waste incineration facility with electrical generation capability.

DATE: This action is effective as of August 11, 1906, the effective date of the PSD permit. Construction must begin within eighteen (18) months of this date or the permit will become invalid.

ADDRESSES: Copies of the PSD permit, permit application, preliminary and final determinations are available for public inspection upon request at the following locations:

U.S. Environmental Protection Agency Air Programs Branch 345 Courtland Street, N.E. Atlanta, Georgia 30365

Bureau of Air Quality Management Florida Department of Environmental Regulation Twin Towers Office Building 2600 Blair Stone Road Tallahassec, Florida 32301 FOR FURTHER INFORMATION CONTACT: Wayne Aronson of the EPA Region IV, Air Programs Branch at the Atlanta address given above, telephone (404) 347-4901; (FTS) 257-4901.

SUPPLEMENTAL INFORMATION: On December 13, 1985, the Hillsborough County Department of Solid Waste submitted an application to construct three 400 ten per day municipal solid waste incinerators near Brandon, Florida. The preliminary determination was issued by the Florida Department of Environmental Regulation (DER) on March 25, 1986, and the public comment period commenced on April 7, 1986. The Final Determination was issued by the Florida DER on May 30, 1986. Comments on the determinations were made by both EPA and the Hillsborough County Department of Solid Waste in reference to various permit conditions. No other comments were received during the public comment period.

The federal PSD permit was issued on July 7, 1986, and became effective on August 11, 1986. The effective date of this permit constitutes final Agency action under 40 CFR §124.19(f)(1) and Section 307 of the Clean Air Act, for purposes of judicial review. Under Section 307(b)(1) of the Act, petitions for judicial review of this action must be filed in the United States Court of Appeals for the appropriate circuit by [60 days from today]. This action

may not be challenged later in proceedings to snforce its requirements (see \$307(b)(2)). If construction does not commence within eighteen (18) months after the effective date, that is, by February 11, 1988, or if construction is not completed within a reasonable time, the permit shall expire and the authorization to construct shall become invalid.

(Sections 160-169 of the Clean Air Act (42 U.S.C. 7470-7479).)

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SEP - 9 1986

Lee A. DeHihns, III, Deputy REGIONAL ADMINISTRATOR

PART I

Specific Conditions

- 1. Emission Limitations
 - a. Stack emissions from each unit shall not exceed the following:
 - (1) Particulate matter: 0.021 grains per dry standard cubic foot corrected to 12% CO₂ (gr/dscf-12%) or 7.0 pounds per hour per unit, whichever is more restrictive.
 - (2) Visible Emissions: Opacity of stack emissions shall not be greater than 15% opacity except that 20% opacity may be allowed for one six-minute period (average of 24 consecutive observations recorded at 15-second intervals) in any one hour. Excess opacity resulting from startup or shutdown shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess opacity shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by EPA for longer duration.

Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during start-up or shutdown shall be prohibited. Opacity of other emission points at the plant shall not exceed 5%.

- (3) VOC: 0.01 gr/dscf-12%, or 0.2 lb/ton, whichever is more restrictive
- (4) SO₂: 0.17 gr/dscf-12% or 3.2 lb/ton, whichever is more restrictive, 24-hour average, 0.45 gr/dscf-12% or 8.5 lb/ton, whichever is more restrictive, 3-hour average
- (5) Nitrogen Oxides: 0.16 gr/dscf-12%, or 3.0 lb/ton, whichever is more restrictive
- (6) Carbon Monoxide: 0.093 gr/dscf-12%, or 1.8 lb/ton, whichever is more restrictive.

- (7) Lead: 0.00104 gr/dscf-12%, or 0.020 lb/ton, whichever is more restrictive.
- (8) Fluorides: 0.0031 gr/dscf-12%, or 0.060 lb/ton, whichever is more restrictive.
- (9) Sulfuric Acid Mist: 0.0040 gr/dscf-12%, or 0.077 lb/ton, whichever is more restrictive.
- (10) Beryllium: 6.8 x 10-7 gr/dscf-12%, or 1.3 x 10-5 lb/ton, whichever is more restrictive.
- (11) Each of the emission limits in conditions (1) and (3) through (10) is to be expressed as a 3-hour average. This averaging time, which is applicable to the emission limits for all pollutants, is based on the expected length of time for a particulate compliance test. The concentration standards in conditions (3) through (10) are included as the primary compliance limit to facilitate simpler compliance testing, since the process weight, in tons per hour, is not easily measured. The concentration limit is intended to be equivalent to the 1b/ton limit. The concentration limits were derived by dividing the lb/ton limits by the calculated volume of flue gas produced when one ton of refuse is combusted. If actual process conditions, i.e., dscf per ton of refuse fired, are different than projected by the applicant, EPA may, at its discretion, determine compliance based upon the lb/ton limits.
- (12) Mercury: 2200 grams/day
- (13) The potential for dust generation by ash handling activities will be mitigated by quenching the ash prior to loading in ash transport trucks.

 Additionally, all portions of the proposed facility including the ash handling facility which have the potential for fugitive emissions will be enclosed. Also those areas which have to be open for operational purposes, e.g., tipping floor of the refuse bunker while trunks are entering and leaving, will be under negative air pressure.
- (14) Each of the three units is subject to 40 CFR Part 60, Subpart E. New Source Performance Standards

(NSPS), except that where requirements in this permit are more restrictive, the requirements in this permit shall apply.

(15) Only natural gas will be used as an auxillary fuel.

b. Compliance Tests

(1) Compliance tests for particulate matter, SO₂, nitrogen oxides, CO, VOC, sulfuric acid mist, fluorides, mercury and beryllium shall be conducted in accordance with 40 CFR 60.8 (a), (b), (d), (e), and (f), except that an annual test will be conducted for particulate matter. Compliance tests for opacity will be conducted simultaneously during each compliance test run for particulate matter.

Compliance tests shall be conducted for such time and under such conditions as specified by EPA prior to the compliance test. These conditions will be specified by EPA upon notification of performance tests as required by General Condition 1. The permittee shall make available to EPA such records as may be necessary to determine the conditions of the performance tests.

- (2) The following test methods and procedures from 40 CFR Parts 60 and 61 shall be used for compliance testing:
 - a. Method 1 for selection of sample site and sample traverses
 - b. Method 2 for determining stack gas flow rate when converting concentrations to or from mass emission limits.
 - c. Method 3 for gas analysis when needed for calculation of molecular weight or percent CO₂.
 - d. Method 4 for determining moisture content when converting stack velocity to dry volumetric flow rate for use in converting concentrations in dry gases to or from mass emission limits.

- e. Method 5 for concentration of particulate matter and associated moisture content. One sample shall constitute one test run.
- f. Method 9 for visible determination of the opacity of emissions.
- g. Method 6 for concentration of SO₂. Two samples, taken at approximately 30 minute intervals, shall constitute one test run.
- h. Method 7 for concentration of nitrogen oxides. Four samples, taken at approximately 15 minute intervals, shall constitute one test run.
- i. Method 8 for determination of sulfuric acid mist concentration and associated moisture content. One sample shall constitute one test run.
- j. Method 10 (continuous) for determination of CO concentrations. One sample constitutes one test run.
- k. Method 12 for determination of lead concentration and associated moisture content. One sample constitutes one test run.
- Method 25 for determination of volatile organic compounds (VOC) concentration. One sample shall constitute one test run.
- m. Method 13A or 13B for determination of fluoride concentrations and associated moisture content. One sample shall constitute one test run.
- n. Method 101A for determination of mercury emission rate and associated moisture content. One sample shall constitute one test run.
- o. Method 104 for determination of beryllium emission rate and associated moisture content. One sample shall constitute one test run.
- (3) The stack tests shall be performed at +10% of the heat input rate of 150 million Btu per hour per boiler; however, compliance with the particulate matter emission limit shall be at design capacity.

- 2. The height of the boiler exhaust stack shall be 220 feet above ground level at the base of the stack.
- 3. The incinerator boilers shall not be loaded in excess of their rated capacity of 36,666 pounds per hour each. 18,3 for//r
- 4. The incinerator boilers shall have a metal name plate affixed in a conspicuous place on the shell showing manufacturer, model number, type waste, rated capacity and certification number.
- 5. The permittee must submit to EPA and DER within fifteen (15) days after it becomes available to the County, copies of technical data pertaining to the incinerator boiler design, to the electrostatic precipitator design, and to the fuel mix that can be used to evaluate compliance of the facility with the preceding emission limitations.
- 6. Grease, scum, grit screenings or sewage sludge shall not be charged into the solid waste to energy facility boilers.
- 7. Electrostatic Precipitator

The electrostatic precipitator shall be designed and constructed to limit particulate emissions to no more than 0.011 grains per dscf corrected to 12% CO₂.

8. Stack Monitoring Program

The permittee shall install and operate continuous monitoring devices for stack oxygen and opacity. The monitoring devices shall meet the applicable requirements of Rule 17-2.710, FAC, 40 CFR Part 60, Subparts A and D, Sections 60.13 and 60.45 respectively, except that emission rates shall be calculated in units consistent with emission limits in this permit. The conversion procedure shall be approved by EPA.

9. Reporting

- a. A copy of the results of the stack tests shall be submitted within forty-five days of testing to the DER Southwest Florida District Office, the Hillsborough County Environmental Protection Commission (HCEPC) and EPA Region IV.
- b. Stack monitoring shall be reported to HCEPC, the DER Southwest District Office and EPA Region IV on a quarterly basis in accordance with Section 17-2.710, FAC, and 40 CFR, Part 60, Subsection 60.7.

10. Fuel

The Resource Recovery Pacility shall utilize refuce cuch as garbage and trash (as defined in Chapter 17-7, FAC) but not sludge from sewage treatment plants as its fuel. Use of alternate fuels would necessitate application for a modification to this permit.

- 11. Addresses for submitting reports are:
 - a. EPA Region IV

Chief, Air Compliance Branch U.S. Environmental Protection Agency 345 Courtland St. Atlanta, GA 30365

b. DER

Chief, Compliance and Ambient Monitoring Bureau of Air Quality Management Florida Department of Environmental Regulation Twin Towers Office Building 2600 Blair Stone Road Tallahassee, FL 32301

c. Southwest District Office of DER

District Manager Department of Environmental Regulation 7601 Highway 301 N. Tampa, FL 33610

d. HCEPC

Chief, Air Group
Hillsborough County Environmental
Protection Commission
1900 9th Ave.
Tampa, FL 33605

12. The facility shall provide space for the future installation, if necessary, of a wet or dry flue gas scrubber.

PART II

General Conditions

- The permittee shall comply with the notification and recordkeeping requirements codified at 40 CFR Part 60, Subpart A, ¶ 60.7.
- 2. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of two (2) years from the date of recording.
- 3. If, for any reason, the permittee does not comply with or will not be able to comply with the emission limitations specified in this permit, the permittee shall provide EPA with the following information in writing within five (5) days of such conditions:
 - (a) description of noncomplying emission(s),
 - (b) cause of noncompliance,
 - (c) anticipated time the noncompliance is expected to continue or, if corrected, the duration of the period of noncompliance,
 - (d) steps taken by the permittee to reduce and eliminate the noncomplying emission, and
 - (1) Staps taken by the permittee to prevent recurrence of the noncomplying emission.

Failure to provide the above information when appropriate shall constitute a violation of the terms and conditions of this permit. Submittal of the aforementioned information does not constitute a waiver of the emission limitations contained within this permit.

4. Any proposed change in the information submitted in the application regarding facility emissions or changes in the quantity or quality of materials processed that would result in new or increased emissions or ambient air quality impact must be reported to EPA. If appropriate, modifications to the permit may then he made by EPA to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause wiplation of the emission limitations specified begain. Any construction or operation of the source in material variance with the application shall be considered a violation of this permit.

- 5. In the event of any change in control or ownership of the source described in the permit, the permittee shall notify the succeeding owner of the existence of this permit and EPA of the change in control of ownership within 30 days.
- find nermitten shall allow wepledentatives of the EPA upon the presentation of credentials:
 - (a) to enter upon the permittee's premises, or other premises under the control of the permittee, where an air pollutant source is located or in which any records are required to be kept under the terms and conditions of the permit;
 - (b) to have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit, or the Clean Air Act;
 - (c) to inspect at reasonable times any monitoring equipment or monitoring method required in this permit;
 - (d) to sample at reasonable times any emissions of pollutants; and
 - (e) to perform at reasonable times an operation and maintenance inspection of the permitted source.
- 7. The conditions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.

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Bureau of Air Regulation

Here is a copy of the PSD permit for Hillsborough RRF (PSD-FI-104). We do not have the actual signed cover page. I also sent a copy of the signed Federal Register notice.

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Scott Davis

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EXHIBIT A

DRAFT PSD PERMIT MODIFICATION FOR HILLSBOROUGH COUNTY RESOURCE RECOVERY FACILITY (PSD-FL-104)

Page 1, Paragraph 3

This modification to Permit No. PSD-FL-104 addresses the increased emissions of nitrogen oxides and sulfuric acid mist from the stack at the resource recovery facility. It also addresses the particulate emissions from the ash residue facility and dust suppression baghouse. Except as expressly provided in the specific conditions contained herein, all of the other provisions of Permit No. PSD-FL-104 remain in effect.

Specific Conditions

- 1. Specific Condition 1.a.(5) in Permit No. PSD-FL-104 establishes an emission limitation for nitrogen oxides. It is modified to read as follows:
 - (5) Nitrogen Oxides: 0.34 gr/dscf-12%, or 6.4 lb/ton, whichever is more restrictive.
- 2. Specific Conditions 1.a.(9) and 1.b.(2)i concerning sulfuric acid mist emission limitations and compliance test requirements are deleted.
- 3. Pursuant to Rule 17-2.700(3)d, FAC, a standard of 5% opacity is hereby set for the minor particulate source control equipment/baghouse (i.e., the ash residue building dust suppression system). The compliance test requirements for the ash handling facility will be waived in accordance with Rule 17-2.700(3)d, FAC.

DSD/vc:Hills-RR2
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CARLTON, FIELDS, WARD, LIMMANUEL, SMITH, CUTLER & KENT, P.A.
P.O. DRAWER 190
TALLAHASSEE, FLORIDA 32302



CLAIR H. FANCY
DEPUTY CHIEF
BUREAU OF AIR QUALITY MANAGEMENT
DEPARTMENT OF ENVIRONMENTAL REGULATION
TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400

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PM 6-9-87 Atlanta, Ga

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET ATLANTA, GEORGIA 30365

JUN - 8 1987

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Mr. Clair H. Fancy, P.E. Deputy Chief
Bureau of Air Quality Management
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301

DER JUN 11 1987 BAQM

Re: Permit Modification Request for Hillsborough County RRF (PSD-FL-104)

Dear Mr. Fancy:

This is in reference to your May 5, 1987, letter transmitting a copy of Ogden Martin Systems of Hillsborough, Incorporated's May 1, 1987, request for a modification to the above-referenced permit. Their request is to raise the emission limits for nitrogen oxides and sulfuric acid mist based on recent stack test results. Your May 5, 1987, letter solicited our comments on Odgen Martin's proposed PSD permit modification.

We concur that the permit be modified in accordance with their request and justification for nitrogen oxides. However, we believe the results of their tests for sulfite concentration as an indication of sulfuric acid mist by EPA reference method 8 is biased high due to concentrations of fluoride and ammonia in the flue gases. As no acceptable test method exists for measuring sulfuric acid mist emissions from municipal solid waste incinerators, and these emissions are estimated based on sulfur dioxide concentrations, we propose that no emissions limits for sulfuric acid mist be included in the revised permit. In this case, we do not feel that such an emissions limit is appropriate since compliance with such a limit could not be determined.

If you have comments or questions regarding this letter, please contact Mike Brandon of my staff at (404) 347-2864.

Sincerely,

Buce P. Miller

Bruce P. Miller, Chief Air Programs Branch Air, Pesticides, and Toxics Management Division

copied: Barry Tom 6-11-87 ASTM Bradrep

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION IV 345 COURTLAND STREET ATLANTA, GEORGIA 30365

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300

AIR-4

Mr. Clair H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality Management
Twin Towers Office Bldg.
2600 Blair Stone Rd.
Tallahassee, FL 32301

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DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32399-2400



BOB MARTINEZ GOVERNOR DALE TWACHTMANN SECRETARY

May 5, 1987

Mr. Wayne Aronson Chief Program Support Section U.S. EPA, Region IV 345 Courtland Street, N.E. Atlanta, Georgia 30365

Dear Mr. Aronson:

RE: PSD Permit Modification Request Hillsborough County RRF: PSD-FL-104

Enclosed for your review are comments from Mr. Richard W. Seelinger on behalf of the applicant of the above referenced project. Please forward any comments to me at the above address or call Barry Andrews or Pradeep Raval at (904)488-1344.

Sincerely,

. H. Fancy, P.E.

Deputy Chief

Bureau of Air Quality

Management

/bm

enclosure

OGDEN PROJECTS, INC.

Telecopier No. 201-882-8207 201-882-8239



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	Tallahassee Fl	
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Air Quality Impact of Requested Emissions Levels

	NO	.
	Existing Permit Levels	Requested Permit <u>Levels</u>
gr/dscf 0 12% CO _®	0.16	0.34
Annual Impact (μg/M³)* % of FAAQS	1.0	2.1 2.1
Monitored Background	35	35
Total (µg/M™) % of FAAQS	36 36	37 37

	H ₌ \$04	
	Existing Permit	Requested Permit
,	Levels	Levels
gr/dscf 0 12% CO _R	0.004	0.072
H ₂ SO ₄ B-hr (μg/M ³)* Annual (μg/M ³)*	0.95 0.027	17.1
TLV (8 hr)-(µg/M³)**	1,000	1,000
AAL (Annual)-(μg/M³)***	3.3	3.3
% of TLV	0.095	1.7
% of AAL	0.82	14.8

Derived from modelling results contained in the Air Quality Impact Analysis in the PSD Application.

^{**} Threshold Limit Value, American Conference of Governmental Industrial Hygienists.

^{***} Allowable Ambient Limit, New York State Department of Environmental Conservation.

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Figure 8.2-gives an expanded scale of Fig. 8.1 in the low excess air region. While these two curves are necessary to describe the entire region covered, it was found that a limited area could be approximated by the following formulae:

$$\frac{\text{mols SO}_{3}}{\text{mol O}_{2}^{-\bullet}} = (2.5 \text{ Sulfur})(0.001635) \left[\frac{(2.5 \text{ Excess Air})^{0.433}}{(2.5 \text{ F.Temp})^{6.2}} \right]$$

Ot.

$$\frac{108 \text{ SO}_A}{10)^9 \text{ Btu}} = 1.7 \text{ Sultranes} = 1081 \left[\frac{(\% \text{ Excess Air})^{14.23}}{\left(\frac{5 \text{ F Temp}}{1000}\right)^{6.9}} \right]$$

Where the excess air is from 5 to 25 percent and the temperature from 1500 to 2506° F, a maximum error of 12 percent will occur.

Example:

For the same case of 2.8 percent sulfur, 25 percent excess air and 2000° F, find the mols of SO₃ per mol of stoichiometric O₂ by the formula given.

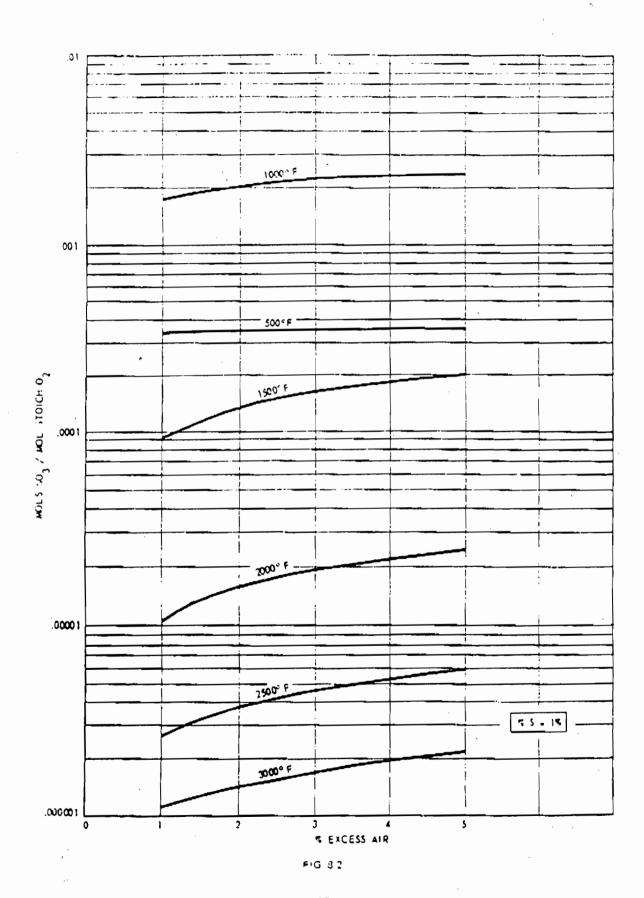
$$\frac{\text{mols O_3}}{\text{mol O_2}^4} = (2.8)(0.001635) \left[\frac{(25)^{0.433}}{\left(\frac{2000^{6.9}}{1000}\right)} \right] = 0.0001545$$

Since a value of 0.00014 was found from the curves, the error is 9.37 percent.

The effect of introducing alkaline metals into the sulfur reaction was not studied in depth, It can be stated that there is a definite tendency to form the sulfate form of sodium when both sulfur and sodium are present at 1800°F. The results presented here are for reactions without alkaline metals present.

Other metals such as vanadium may also act as catalysts—) in the SO_2 to SO_3 reaction and continue the reaction beyond the combustion zone.

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OGDEN PROJECTS, INC.

Telecopier No. 401-882-8707 201-882-8739



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OF HILLSBOROUGH

P.O. BOX 1110

TAMPA, FLORIDA 33601

Department of Solid Wast (813) 272-6674

OFFICE OF THE COUNTY ADMINISTRATOR

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OGDE VALUE OF STREMS OF HILLSE: 9d. INC.

Mr. J. Thomas Sweeney Ogden Martin System of Hillsborough, Inc. 140 Ridgewood Avenuye Paramus, NJ 07652

Dear Tom:

Attached is the PSD permit issued by the U. S. Environmental Protection Agency on July 2, 1986. The permit becomes effective thirty (30) days after receipt, which was July 14, 1986.

Sincerely,

C-1005 PSD Permit

Thomas G. Smith General Manager Department of Solid Waste

TGS:elj

PLEASE FIL

Attachment

F.M. PALERMO TOM SWEENEY TOM HALL BOB HARNETT BILL HILL ROY SIMPSON J.R. TRESHLER A. RITTNER G. MILLS P. RUPPEL D.L. SOKOL J.E. SALMON P. WASIOWICH T. NICOLAU A. HILDABIDLE G.CRANE

Equal Opportunity Employer

OGDEN MARTIN SYSTEMS OF HILLSBOROUGH INC.

40 LANE ROAD ON 2615 FAIRFIELD INEW JEANEY J7007-2615 (201) 882 1000

Received DER. Barry

MAY 1 1987

R B S



May 1, 1987

DER

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

BAQM

MAY 05 1987

RE: Modification of Power Plant Site Certification No. PA 83-19 and Prevention of Significant Deterioration Permit No. PSD-FL-104 as amended July 2, 1986

Dear Mr. Oven:

On behalf of Ogden Martin Systems of Hillsborough County, Inc. (OMSH), I would like to thank you and your staff for meeting with representatives of Ogden Martin Systems, Inc. (Ogden) on April 10, 1987 at the Department of Environmental Regulation Offices in Tallahassee, Florida to discuss proposed modifications of the referenced permits. Based upon test data which has become available to the municipal solid waste combustion industry subsequent to the issuance of the aforesaid permits, it has become apparent that the Hillsborough County Resource Recovery Facility (Facility) will be unable to meet the permitted levels for nitrogen oxides (NOx) and sulfuric acid mist (H₂SO₄ mist) for reasons that will be set forth below. Accordingly, please consider this a formal request by OMSH, on behalf of Hillsborough County, for a modification of the permits in the following respects:

- A. Adjust the permissible emission level of NO_{X} in the Power Plant Site Certification and the Prevention of Significant Deterioration Permit to 0.34 gr/dscf at 12 percent CO_2 for a three (3) hour average from 0.16 gr/dscf at 12 percent CO_2 , the current permit level.
- B. Adjust the permissible emission level of H_2SO_4 mist in the Prevention of Significant Deterioration Permit to 0.072 gr/dscf at 12 percent CO_2 for a three (3) hour average from 0.004 gr/dscf at 12 percent CO_2 , the current permit level. The twenty-four (24) hour average H_2SO_4 mist emission level would be 0.027 gr/dscf at 12 percent CO_2 .

A chart captioned Requested Permit Change for Hillsborough is attached hereto as Exhibit "A".

Mr. Oven Page -2-May 1, 1987

Based upon Ogden's experience with emissions from other refuse burning facilities which have recently gone service, it appeared the Facility would not be able to comply with the permitted levels for NOx and sulfuric acid mist. awareness generated our conference in Tallahassee. testing at the Facility has confirmed our belief. The actual emission levels for NOx and H₂SO₄ mist exceed the permit The requested adjustments are being sought to more realistically reflect emission levels in modern refuse burning permissible levels οf these facilities and to reflect which have been approved by state regulatory substances agencies and/or the Environmental Protection Agency (EPA) in The increases being sought are minimal and will other regions. not cause or contribute to the facility exceeding acceptable ambient air quality standards. The specific reasons for the requested changes and the supporting data are outlined below.

NITROGEN OXIDES

The emission level for NOx originally adopted in the issued PSD permit was the same level that was requested in application submitted in August, 1984. At the time of submission of the application, there were no data available to Ogden or other similar corporations with regard to NOx emission levels being experienced by modern refuse burning facilities using state of the art mass-burn technology. As a consequence, data derived from older facilities then in operation were used the source of the NOx emission level requested in the application. The older facilities were neither designed nor operated to achieve the high degree of combustion efficiency as achieved by this facility and, perhaps predictably, testing has demonstrated that the older data are not compatible facilities. emissions from modern Subsequent submission of the present application, several recovery facilities around the country using improvements in combustion technology have gone into service. Two of these are Ogden facilities in Tulsa, Oklahoma and Marion County, Oregon. Operation of these facilities has shown that actual NOx levels are equivalent to those being sought herein.

As you are aware, NOx in combustion exhaust is the result of two chemical processes, namely, the conversion of nitrogen contained in the fuel and the oxidation of atmospheric N_2 , or thermal NOx. Levels of NOx in modern energy recovery facilities are necessarily increased as a result of higher

Mr. Oven Page -3-May 1, 1987

operating temperatures. However, this increase is not without a concomitant reduction of harmful pollutants such as carbon monoxide and volatile organic compounds. For example, our preliminary tests indicate that the Facility is producing less than 15 percent of the permitted emission level of carbon monoxide and is performing in a similar manner to the Tulsa facility where volatile organic compounds have been lowered to the point where they are at "trace" levels at the lower level of detection using current EPA monitoring procedures. harmful pollutants are greatly reduced by the controlled combustion temperatures produced by this facility. Therefore, there is a beneficial tradeoff of substantial reductions in harmful emissions for a small increase of nitrogen oxide emissions. It is for this reason that an adjustment of the emission level of NOx is being requested. Noteworthy is that a similar request for an upward adjustment for NOx was made by Ogden and accepted by the Tulsa City County Health Department and has been preliminarily accepted by the state of Oklahoma and the U.S. EPA for the Ogden facility in Tulsa, Oklahoma. For reference these permits bear numbers T84-23 and PSD-OK-556 The latter adjustments recognized the necessity of increasing the NOx emission level to be compatible with current technology.

A chart captioned Emission Test Data and Permit Levels for NOx and $\rm H_2SO_4$ is attached hereto as Exhibit "B" which summarizes the data which have been assimilated by Ogden regarding NOx emissions. This chart shows emission levels of NOx from Ogden facilities and other similar plants for which NOx data are available.

SULFURIC ACID MIST

OMSH also seeks an adjustment of the emission level for sulfuric acid mist to reflect emissions of this substance from modern refuse burning facilities. The emission level for $\rm H_2SO_4$ mist that was originally requested in the application, and later adopted in the permit, was not based upon operating results of facilities using current technology. At the time the application was submitted, no such data were available. In fact, it has only been very recently that $\rm H_2SO_4$ mist emissions have been regulated in refuse burning facilities. The basis for the emission level contained in the application was a "theoretical" calculation derived from a formula found in an ASME text published in 1974 involving a different type of

Mr. Oven Page -4-May 1, 1987

facility. A copy of this article is attached hereto as Exhibit "C". The findings in this reference source were based upon the burning of <u>fuel oil</u> at <u>25 percent</u> excess air rather than combustion of municipal refuse at <u>90 to 100 percent excess air</u>.

Based upon the experience of resource recovery facilities recently coming into service, the sulfuric acid mist levels originally requested and adopted are unrealistically low and require adjustment. It is important to note that even at the modified level requested, the amount of sulfuric acid mist emitted is still at trace levels and exceedingly difficult to accurately measure. Measurements which are able to be obtained show emission levels well within acceptable ambient air quality parameters.

One observation that should be made in connection with the present permitted level of H2SO4 mist is that no emission limit was listed for this pollutant in the original permit. When the permit was revised in July, 1986 regarding SO2, the permissible level of SO2 was adjusted upward in order to reflect current experience for short terms emissions, in addition a limit was assigned for H2SO4 mist which reflected a conversion rate of 2% based on the original permits SO2 level. Since any increase in the allowable level of SO₂ will result in a proportionate increase in the amount of H_2SO_4 , it was apparently an oversight that the H2SO4 emission level was established based on the lower original permit's SO₂ emission level and not on the revised increased SO₂ emission level approved as part of the Based upon Ogden's current July 1986 permit revision. experience with its resource recovery facility in Tulsa in which SO_2 is converted into H_2SO_4 at the rate of 15 to 18 percent by weight, the new emission level now being requested by OMSH would be consistent with the currently permitted SO2 levels.

Data summarizing relevant information concerning sulfuric acid mist levels are attached in Exhibit "B". In addition, the air quality impact of the requested emission levels of NOx and H2SO4 are shown as a comparison to the existing permit levels in the table captioned "Air Quality Impact of Requested Emissions Levels" attached hereto as Exhibit "D". The NOx annual impact will be increased from 36 percent to 37 percent of the Florida Ambient Air Quality Standards. The H2SO4 eight (8) hour TLV and annual AAL (NYSDEC Air Guide 1) impact will be increased from .095 percent to 1.7 percent and from .82 percent

Mr. Oven Page -5-May 1, 1987

to 14.8 percent, respectively. These results are based on the modeling in the original application for a 1600 TPD facility operating at 110 percent with 100 percent availability. The present facility is 1200 TPD, thus the results presented should be conservative.

The Hillsborough County Resource Recovery facility is eligible to be dedicated and placed into service in the very near future and therefore all parties concerned are most anxious to expeditiously modify the captioned permits so that there will

little delay as possible in placing the plant as feel our meeting in Tallahassee was service. We beneficial and are formalizing our verbal request made at that time by way of this correspondence. We would respectfully request that the Department of Environmental Regulation take the lead in making the modifications in view of the fact that the EPA has delegated PSD permitting authority to the DER and the DER has had technical experience with this project since If any additional information is needed, we its inception. would be most willing to promptly supply the same. We would also be willing to meet again with your staff or representatives of the EPA if that would expedite understanding and handling of the present request.

Thanking you for your continued cooperation in this matter, we remain

Richard W. Seelinger

Executive Vice President

RWS/ecd Enclosures

REQUESTED PERMIT CHANGE FOR HILLSBOROUGH

<u>Pollutant</u>	Existing Permi gr/dscf a 12% COs	ppm 0 12% CO _E	Requested Perr gr/dscf 0 12% CO ₂	ppm 0 12% COp
NO _x (3 hour average)	0.16	191	0.34	404.
SO _e (3 hour average) SO _e (24 hour average)	0.45 0.17	388 146	No requested	-
H _e SO ₄ (3 hour average) H _e SO ₄ (24 hour average)** ·	0.004 NA	2.5 AN ~)	0.072 - 0.027 -	39 ~ 15 ~
$\%H_eSO_4/SO_2$ (3 hour average) $\%H_eSO_4/SO_2$ (24 hour average)		0.6 NA	16 16	10 10

References:

- (1) U.S. EPA Permit PSD-FL-104
- (2) Power Plant Siting Certificate PA 83-19
- $^{\bullet}$ The requested permit levels of HeSO, are a function of the existing permit levels of SOe which are specified in the permit at 3 hour and 24 hour averages.
- ** These are not existing nor requested permit levels. This information is being given for comparison purposes only.

Notes: 1) NA is Not Applicable.

2) The %HmSO../SOe under gr/dscf at 12% COe is by weight and under ppm 0 12% COe is by volume.

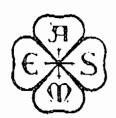
EMISSION TEST DATA AND PERMIT LEVELS FOR NO. AND Haso.

Pollutant	<u>Tu l</u>	<u>15a</u>		Marion	Hurzburg	Stockholm	Preliminary (*) Hillsborough Test Results
	Test ppa <u>a lax co</u>	Permit ppm 0 12% COm		test ppm a 12% CO _m	Test pp a <u>2 12% CO</u> e	Test ppm <u>0 12% CO</u> m	ppa 2 12x CO.
NO.	382 (*)	404	~)	357 (#)	318(**)	311(4)	327
SOm	85,4(4)	137.8			CATA NOT	AVAILABLE	
H _# SO ₄	12.444	21.1	DATA NOT AVAILABLE 15.2			15.2	
XH ₂ SO ₄ /SO ₈	14.5	15.3		w	DATA NOT	AVAILABLE	

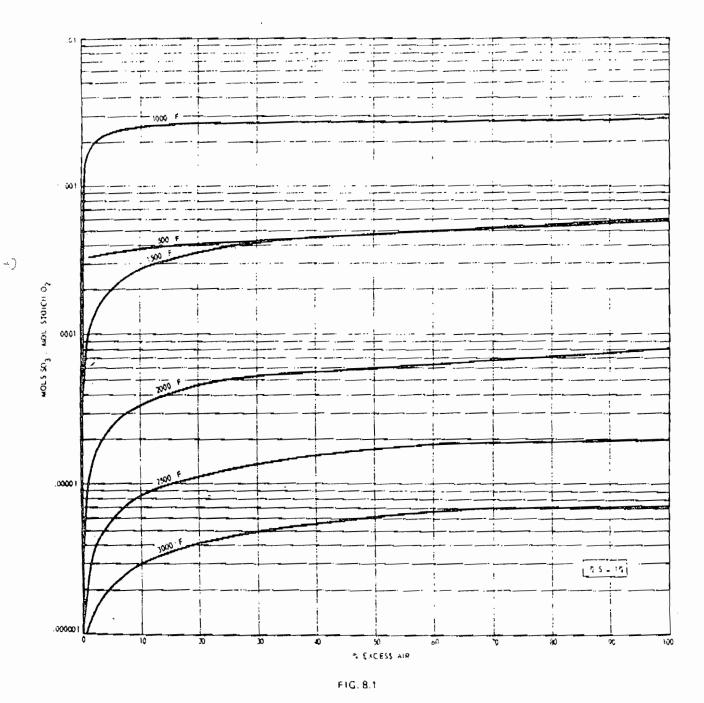
References:

- (1) Ogden Projects, Inc. Data, 3-hr rolling average, worse case.
- (2) Ogden Projects, Inc. Data, 3-hr rolling average, worse case.
- (3) Cooper Engineer's Report "Air Emission Testing at the Hurzburg, West Germany Waste-to-Energy Facility", June 1986, 3-hr average.
- (4) Ogden Projects, Inc. Report \$124, averaging period unknown.
- (5) Preliminary data obtained during testing at the Hillsborough Facility, 3-hr average.
- (6) Ogden Projects, Inc. Report Number 101.

Combustion Fundamentals for Waste Incineration



SPONSORED BY THE ASME RESEARCH COMMITTEE ON INDUSTRIAL AND MUNICIPAL WASTES



ATTACHMENT "C" P. 4

EDITOR'S NOTE: Numbers in parentheses indicate equations. References are noted by numbers in brackets and appear at the end of their respective Chapter or Table. Numbered Source references (also in brackets) for Appendices G and H appear only within the text, since they primarily comprise text material.

Library of Congress Catalog Number 74-19743

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Chapter 8 - Sulfur Oxides

When sulfur is present in a hydrocarbon fuel, it will form oxides under equilibrium combustion conditions. These can be either sulfur dioxide (SO₂) or sulfur trioxide (SO₃). The amount that goes to SO₃ in relation to SO₂ will always be small, but it is often important. The SO₃ form readily combines with water vapor to form a high dew point sulfuric acid that can be both visible and corrosive. Equilibrium calculations for sulfur containing hydrocarbon fuels were made in the following limits:

Sulfur Content: 0.67 to 5.47% Excess Air: 0 to 100% Temperature: 500 to 3000°F

The results are plotted on Fig. 8.1. Values of SO₃ expressed as mols per mol of stoichiometric oxygen are plotted vs. excess air in percent with values given along lines of constant temperature. The curve is drawn for 1 percent sulfur fuel content by weight. Values for other percent sulfur contents can be obtained by multiplying the curve by the ratio of the actual sulfur content to one.

Example:

A 2.8 percent sulfur fuel is burned at 2000° F with 25 percent excess air. Determine the ppm of SO_2 and SO_3 if the hydrocarbon part of the fuel is represented by C_4H_5 .

From Fig. 8.1, a value of 0.00005 mols SO_3 per stoichiometric mol of O_2 is found at 2000° F and 25 percent excess air. This is for a 1 percent sulfur fuel

For a 2.8 percent sulfur fuel, the amount of SO₃ produced would be:

 $(2.8)(0.00005) = 0.00014 \text{ mols SO}_3 \text{ per mol stoic. O}_2$

To convert to ppm.

$$\begin{array}{lll} 1 \bmod C_4 H_5 & = 53 \ \text{lbs} \\ 1-.028 & = 0.972 \ \text{lbs} \ C_4 H_5 \ \text{per} \ 0.028 \ \text{lbs} \ \text{S} \\ (0.028/32) & = 0.000875 \ \text{mois} \ \text{S}/0.972 \ \text{lbs} \ \text{C}_4 H_6 \\ \hline \left(\frac{0.000875}{0.972}\right) (53) & = 0.0477 \ \text{mols} \ \text{S}/\text{mol} \ \text{C}_4 H_5 \end{array}$$

So:

 $C_4H_5 + 0.0477 S + 1.25 (5.25 + 0.0477)O_2 \longrightarrow 4 CO_2 + 2.5 H_2O + 0.00014 (5.25 + 0.0477)SO_3 + [0.0477 - (0.00014(5.25 + 0.0477))] SO_2 + 0.25 (5.25 + 0.0477) O_2 + (79/21)(1.25(5.25 + 0.0477))N_2 (Stoichiometry)$

 $C_4H_5 + 0.0477 S + 6.622 O_2 \longrightarrow 4 CO_2 + 2.5 H_2O + 0.0007417 SO_3 + 0.04696 SO_2 + 1.324 O_2 + 24.912 N_2$

On a dry basis, the ppm of SO₃ is:

ppm SO₃ =
$$\frac{0.0007417}{4 + 0.0007417 + 0.04696 + 1.324 + 24.912} \times 10^6$$

= $\frac{0.0007417(10^6)}{30.2837}$ = 24.5

ppni
$$SO_2 = \frac{0.04696(10^6)}{30.2837} = 1550.7$$

$$ppm SO_X = 24.5 + 1550.7 = 1575$$

Similar calculations can be made to any fuel whose molecular form or ultimate analysis is known. Note that for this particular case, 1% percent of the sulfur was converted to SO₃.

The relationship of mols to pounds per million Bitacan also be calculated or approximated.

Example:

Express the results of the previous example as $16s/10^{\circ}$. But. Since neither a heat of formation nor heating value is available for C_4H_5 , assume 1 mol of stoichiometric O_2 is equal to a fuel heating value of 184,000 But.

$$\frac{1 \text{bs SO}_3}{10^6 \text{ Btu}} = \frac{0.00014 \text{ mols SO}_3}{\text{mol O}_2} \times \frac{\text{mol O}_2 *}{184,000 \text{ Btu}} \times 10^6 \times \frac{80 \text{ lbs}}{\text{mol SO}_3}$$

$$= 0.06$$

$$\frac{1 \text{bs SO}_2}{10^6 \text{ Btu}} = \frac{1550.7 \text{ ppm SO}_2}{24.5 \text{ ppm SO}_3} \times \frac{64 \text{ lbs SO}_2}{80 \text{ lbs SO}_3} \times 0.06 = 3.014$$

JUL 7 1986

4APT-AP/ch

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

AUG 221986

BAQM

Mrs. Mary Cummings, Director Department of Solid Waste Post Office Box 1110 925 East Twiggs Street Tampa, Florida 33601

RE: PSD-FL-104

Dear Mrs. Cummings:

Review of your December 13, 1985, application to construct a 1200 tons per day (tpy) Energy Recovery Facility in Hillsborough County, Florida, has been completed. The construction is subject to rules for the Prevention of Significant Deterioration (PSD) of air quality contained in 40 CFR §52.21. The Florida Department of Environmental Regulation (FDER) performed the preliminary determination concerning the proposed construction and published a request for public comment on April 6, 1986. On May 21, 1986, FDER prepared a final determination recommending issuance of the PSD permit by EPA. The final determination contains responses to issues raised during the public comment period.

The Environmental Protection Agency (EPA) has determined that the construction as described in the application meets all the applicable requirements of 40 CFR §52.21. Accordingly, pursuant to 40 CFR 124.15, the Regional Administrator has made a final decision to issue the enclosed Permit to Construct - Part I Specific Conditions and Part II General Conditions. This authority to construct, granted as of the effective date of the permit, is based solely on the requirements of 40 CFR §52.21, air quality. It does not apply to other permits issued by this Agency or by other agencies. Please be advised that a violation of any permit condition, as well as any construction which proceeds in material variance with information submitted in your application, will be subject to enforcement action.

This final permit decision is subject to appeal under 40 CFR 124.19 by petitioning the Administrator of the EPA within thirty (30) days after receipt thereof. The petitioner must submit a statement of reasons for the appeal and the Administrator must decide on the petition within a reasonable time period. the petition is denied, the permit shall become effective upon notice of such action to the parties to the appeal. If no appeal is filed with the Administrator, the permit shall become effective thirty (30) days after receipt of this letter. Upon the expiration of the thirty (30) day period, EPA will notify you of the status of the permit's effective date.

Receipt of this letter does not constitute authority to construct. Approval to construct this facility shall be granted as of the effective date of the permit. The complete analysis which justifies this approval has been fully documented for future reference, if neccessary. Any questions concerning this approval may be directed to Mr. Bruce P. Miller, Acting Chief, Air Programs Branch at 404/347-2864.

Sincerely yours,

Winston A. Smith, Director Air, Pesticides, & Toxics Management Division

Enclosure

Mr. Steve Smallwood, P. E., Chief Bureau of Air Quality Management Florida Department of Environmental Regulation

PFAFF:chaynes:x4253:6/10/86 GEN #4 DISK PFAFF ARONSON MILLER FINAL DONE 6/13/86

200 WA 5PM 2/16 6/17/86 WE/19/86

PERMIT TO CONSTRUCT UNDER THE RULES FOR THE PREVENTION OF SIGNIFICANT DETERIORATION OF AIR QUALITY

Pursuant to and in accordance with the provisions of Part C, Subpart 1 of the Clean Air Act, as amended, 42 USC §7470 et. seg., and the regulations promulgated thereunder at 40 CFR §52.21, as amended at 45 Ped. Reg. 52676, 52735-41, (August 7, 1980).

Hillsborough County Department of Solid Waste

is, as of the effective date of this permit (PSD-FL-104) authorized to construct a stationary source at the following location:

0.6 miles North of State Route 60 between Faulkenburg Road and the TECO transmission line corridor in Hillsborough County, Florida

Upon completion of authorized construction and commencement of operation/production, this stationary source shall be operated in accordance with the emission limitations, sampling requirements, monitoring requirements and other conditions set forth in the attached Specific Conditions (Part I) and General Conditions (Part II)

This permit is hereby issued on JUL 2 1986 and shall become effective thirty (30) days after receipt hereof unless a petition for administrative review is filed with the Administrator during that time. If a petition is filed any applicable effective date shall be determined in accordance with 40 CFR §124.19(f)(1).

If construction does not commence within 18 months after the effective date of this permit, or if construction is discontinued for a period of 18 months or more, or if construction is not completed within a reasonable time, this permit shall expire and authorization to construct shall become invalid.

This authorization to construct/modify shall not relieve the owner or operator of the responsibility to comply fully with all applicable provisions of Federal, State, and local law.

copy of enclosure

PART I

Specific Conditions

- 1. Emission Limitations
 - a. Stack emissions from each unit shall not exceed the following:
 - (1) Particulate matter: 0.021 grains per dry standard cubic foot corrected to 12% CO₂ (gr/dscf-12%) or 7.0 pounds per hour per unit, whichever is more restrictive.
 - (2) Visible Emissions: Opacity of stack emissions shall not be greater than 15% opacity except that 20% opacity may be allowed for one six-minute period (average of 24 consecutive observations recorded at 15-second intervals) in any one hour. Excess opacity resulting from startup or shutdown shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess opacity shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by EPA for longer duration.

Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during start-up or shutdown shall be prohibited. Opacity of other emission points at the plant shall not exceed 5%.

- (3) VOC: 0.01 gr/dscf-12%, or 0.2 lb/ton, whichever is more restrictive
- (4) SO₂: 0.17 gr/dscf-12% or 3.2 lb/ton, whichever is more restrictive, 24-hour average, 0.45 gr/dscf-12% or 8.5 lb/ton, whichever is more restrictive, 3-hour average
- (5) Nitrogen Oxides: 0.16 gr/dscf-12%, or 3.0 lb/ton, whichever is more restrictive
- (6) Carbon Monoxide: 0.093 gr/dscf-12%, or 1.8 lb/ton, whichever is more restrictive.

- (7) Lead: 0.00104 gr/dscf-12%, or 0.020 lb/ton, whichever is more restrictive.
- (8) Fluorides: 0.0031 gr/dscf-12%, or 0.060 lb/ton, whichever is more restrictive.
- (9) Sulfuric Acid Mist: 0.0040 gr/dscf-12%, or 0.077 lb/ton, whichever is more restrictive.
- (10) Beryllium: 6.8 x 10-7 gr/dscf-12%, or 1.3 x 10-5 lb/ton, whichever is more restrictive.
- (11) Each of the emission limits in conditions (1) and (3) through (10) is to be expressed as a 3-hour average. This averaging time, which is applicable to the emission limits for all pollutants, is based on the expected length of time for a particulate compliance test. The concentration standards in conditions (3) through (10) are included as the primary compliance limit to facilitate simpler compliance testing, since the process weight, in tons per hour, is not easily measured. concentration limit is intended to be equivalent to the lb/ton limit. The concentration limits were derived by dividing the lb/ton limits by the calculated volume of flue gas produced when one ton of refuse is combusted. If actual process conditions, i.e., dscf per ton of refuse fired, are different than projected by the applicant, EPA may, at its discretion, determine compliance based upon the 1b/ton limits.
- (12) Mercury: 2200 grams/day
- (13) The potential for dust generation by ash handling activities will be mitigated by quenching the ash prior to loading in ash transport trucks.

 Additionally, all portions of the proposed facility including the ash handling facility which have the potential for fugitive emissions will be enclosed. Also those areas which have to be open for operational purposes, e.g., tipping floor of the refuse bunker while trunks are entering and leaving, will be under negative air pressure.
- (14) Each of the three units is subject to 40 CFR Part 60, Subpart E, New Source Performance Standards

(NSPS), except that where requirements in this permit are more restrictive, the requirements in this permit shall apply.

(15) Only natural gas will be used as an auxillary fuel.

b. Compliance Tests

(1) Compliance tests for particulate matter, SO₂, nitrogen oxides, CO, VOC, sulfuric acid mist, fluorides, mercury and beryllium shall be conducted in accordance with 40 CFR 60.8 (a), (b), (d), (e), and (f), except that an annual test will be conducted for particulate matter. Compliance tests for opacity will be conducted simultaneously during each compliance test run for particulate matter.

Compliance tests shall be conducted for such time and under such conditions as specified by EPA prior to the compliance test. These conditions will be specified by EPA upon notification of performance tests as required by General Condition 1. The permittee shall make available to EPA such records as may be necessary to determine the conditions of the performance tests.

- (2) The following test methods and procedures from 40 CFR Parts 60 and 61 shall be used for compliance testing:
 - a. Method l for selection of sample site and sample traverses
 - b. Method 2 for determining stack gas flow rate when converting concentrations to or from mass emission limits.
 - c. Method 3 for gas analysis when needed for calculation of molecular weight or percent CO₂.
 - d. Method 4 for determining moisture content when converting stack velocity to dry volumetric flow rate for use in converting concentrations in dry gases to or from mass emission limits.

- e. Method 5 for concentration of particulate matter and associated moisture content. One sample shall constitute one test run.
- f. Method 9 for visible determination of the opacity of emissions.
- g. Method 6 for concentration of SO₂. Two samples, taken at approximately 30 minute intervals, shall constitute one test run.
- h. Method 7 for concentration of nitrogen oxides. Four samples, taken at approximately 15 minute intervals, shall constitute one test run.
- i. Method 8 for determination of sulfuric acid mist concentration and associated moisture content. One sample shall constitute one test run.
- j. Method 10 (continuous) for determination of CO concentrations. One sample constitutes one test run.
- k. Method 12 for determination of lead concentration and associated moisture content. One sample constitutes one test run.
- Method 25 for determination of volatile organic compounds (VOC) concentration. One sample shall constitute one test run.
- m. Method 13A or 13B for determination of fluoride concentrations and associated moisture content. One sample shall constitute one test run.
- n. Method 101A for determination of mercury emission rate and associated moisture content. One sample shall constitute one test run.
- o. Method 104 for determination of beryllium emission rate and associated moisture content. One sample shall constitute one test run.
- (3) The stack tests shall be performed at ±10% of the heat input rate of 150 million Btu per hour per boiler; however, compliance with the particulate matter emission limit shall be at design capacity.

- The height of the boiler exhaust stack shall be 220 feet above ground level at the base of the stack.
- 3. The incinerator boilers shall not be loaded in excess of their rated capacity of 36,666 pounds per hour each.
- 4. The incinerator boilers shall have a metal name plate affixed in a conspicuous place on the shell showing manufacturer, model number, type waste, rated capacity and certification number.
- 5. The permittee must submit to EPA and DER within fifteen (15) days after it becomes available to the County, copies of technical data pertaining to the incinerator boiler design, to the electrostatic precipitator design, and to the fuel mix that can be used to evaluate compliance of the facility with the preceding emission limitations.
- 6. Grease, scum, grit screenings or sewage sludge shall not be charged into the solid waste to energy facility boilers.
- 7. Electrostatic Precipitator

The electrostatic precipitator shall be designed and constructed to limit particulate emissions to no more than 0.021 grains per dscf corrected to 12% CO₂.

8. Stack Monitoring Program

The permittee shall install and operate continuous monitoring devices for stack oxygen and opacity. The monitoring devices shall meet the applicable requirements of Rule 17-2.710, FAC, 40 CFR Part 60, Subparts A and D, Sections 60.13 and 60.45 respectively, except that emission rates shall be calculated in units consistent with emission limits in this permit. The conversion procedure shall be approved by EPA.

9. Reporting

- a. A copy of the results of the stack tests shall be submitted within forty-five days of testing to the DER Southwest Florida District Office, the Hillsborough County Environmental Protection Commission (HCEPC) and EPA Region IV.
- b. Stack monitoring shall be reported to HCEPC, the DER Southwest District Office and EPA Region IV on a quarterly basis in accordance with Section 17-2.710, FAC, and 40 CFR, Part 60, Subsection 60.7.

10. Fuel

The Resource Recovery Facility shall utilize refuse such as garbage and trash (as defined in Chapter 17-7, FAC) but not sludge from sewage treatment plants as its fuel. Use of alternate fuels would necessitate application for a modification to this permit.

- 11. Addresses for submitting reports are:
 - a. EPA Region IV

Chief, Air Compliance Branch U.S. Environmental Protection Agency 345 Courtland St. Atlanta, GA 30365

b. DER

Chief, Compliance and Ambient Monitoring
Bureau of Air Quality Management
Florida Department of Environmental
Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32301

c. Southwest District Office of DER

District Manager
Department of Environmental Regulation
7601 Highway 301 N.
Tampa, FL 33610

d. HCEPC

Chief, Air Group
Hillsborough County Environmental
Protection Commission
1900 9th Ave.
Tampa, FL 33605

12. The facility shall provide space for the future installation, if necessary, of a wet or dry flue gas scrubber.

PART II

General Conditions

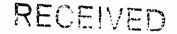
- The permittee shall comply with the notification and recordkeeping requirements codified at 40 CFR Part 60, Subpart A, ¶ 60.7.
- 2. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of two (2) years from the date of recording.
- 3. If, for any reason, the permittee does not comply with or will not be able to comply with the emission limitations specified in this permit, the permittee shall provide EPA with the following information in writing within five (5) days of such conditions:
 - (a) description of noncomplying emission(s),
 - (b) cause of noncompliance,
 - (c) anticipated time the noncompliance is expected to continue or, if corrected, the duration of the period of noncompliance,
 - (d) steps taken by the permittee to reduce and eliminate the noncomplying emission, and
 - (e) steps taken by the permittee to prevent recurrence of the noncomplying emission.

Failure to provide the above information when appropriate shall constitute a violation of the terms and conditions of this permit. Submittal of the aforementioned information does not constitute a waiver of the emission limitations contained within this permit.

4. Any proposed change in the information submitted in the application regarding facility emissions or changes in the quantity or quality of materials processed that would result in new or increased emissions or ambient air quality impact must be reported to EPA. If appropriate, modifications to the permit may then be made by EPA to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause violation of the emission limitations specified herein. Any construction or operation of the source in material variance with the application shall be considered a violation of this permit.

- 5. In the event of any change in control or ownership of the source described in the permit, the permittee shall notify the succeeding owner of the existence of this permit and EPA of the change in control of ownership within 30 days.
- 6. The permittee shall allow representatives of the state and local environmental control agency or representatives of the EPA upon the presentation of credentials:
 - (a) to enter upon the permittee's premises, or other premises under the control of the permittee, where an air pollutant source is located or in which any records are required to be kept under the terms and conditions of the permit;
 - (b) to have access to and copy at reasonable times any records required to be kept under the terms and "conditions of this permit, or the Clean Air Act;
 - (c) to inspect at reasonable times any monitoring equipment or monitoring method required in this permit;
 - (d) to sample at reasonable times any emissions of pollutants; and
 - (e) to perform at reasonable times an operation and maintenance inspection of the permitted source.
- 7. The conditions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.

Best Available Copy





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET ATLANTA, GEORGIA 30365 OGDER MAY IN LIGHT SOFT HILLSEY HER INC.

JUL 14 1986

JUL 7 1986

4APT-AP/ch

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mrs. Mary Cummings, Director
Department of Solid Waste
Post Office Box 1110

925 East Twiggs Street Tampa, Florida 33601

RE: PSD-FL-104

Dear Mrs. Cummings:

Review of your December 13, 1985, application to construct a 1200 tons per day (tpy) Energy Recovery Facility in Hillsborough County, Florida, has been completed. The construction is subject to rules for the Prevention of Significant Deterioration (PSD) of air quality contained in 40 CFR §52.21. The Florida Department of Environmental Regulation (FDER) performed the preliminary determination concerning the proposed construction and published a request for public comment on April 6, 1986. On May 21, 1986, FDER prepared a final determination recommending issuance of the PSD permit by EPA. The final determination contains responses to issues raised during the public comment period.

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Receipt of this letter does not constitute authority to construct. Approval to construct this facility shall be granted as of the effective date of the permit. The complete analysis which justifies this approval has been fully documented for future reference, if necessary. Any questions concerning this approval may be directed to Mr. Bruce P. Miller, Acting Chief, Air Programs Branch at 404/347-2864.

Sincerely yours,

Winston A. Smith, Director

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Air, Pesticides, & Toxics
Management Division

Enclosure

cc: Mr. Steve Smallwood, P. E., Chief Bureau of Air Quality Management

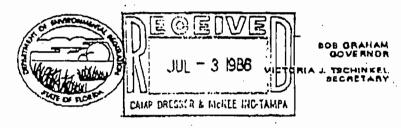
Florida Department of Environmental Regulation

condition of Certification

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2500 BLAIR STONE ROAD TALLAHADGEE, FLORIDA 22201-#241



June 23, 1986

Mr. David S. Dee, Esquire Carlton, Fields, Ward, Emmanuel, Smith and Cutler, P.A. Post Office Drawer 190 Tallahassee, FL 32301

Dear Mr. Dee:

Attached please find a revised copy of the Conditions of Certification for the Hillsborough County Energy Recovery Facility as approved by the Governor and Cabinet on June 17, 1986.

Sincerely,

Hamilton S. Oven, Jr., P.E. Administrator

Siting Coordination Section

H50jr/sh

cc: All Parties

RECEIVED JUN 2 6 1986

State of Florida Department of Environmental Regulation Hillsborough County Energy Recovery Facility Case No. 83-19 CONDITIONS OF CERTIFICATION Revised 6

Revised 6/17/86

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State of Florida
Hillsborough County
Energy Recovery Facility
Case No. PA 83-19
CONDITIONS OF CERTIFICATION

I. CONSTRUCTION

The facility shall be constructed, as a minimum, pursuant to the design standards presented in the application.

A. Control Measures

1. Stormwater Runoff

To control runoff during construction which may reach and thereby pollute Waters of the State, necessary measures shall be utilized to settle, filter, treat or absorb silt-containing or pollutant-laden stormwater to insure against spillage or discharge of excavated material that may cause turbidity in excess of 50 Jackson Turbidity Units above background in Waters of the State and to comply with Hillsborough County and Southwest Florida Water Management District stormwater regulations. Control measures may consist of sediment traps, barriers, berms, and vegetation plantings. Exposed or disturbed soil shall be protected and stabilized as soon as possible to minimize silt and sediment-laden runoff. The pH shall be kept within the range of 6.0 to 8.5.

. 2. Burning

Open burning in connection with land clearing shall be in accordance with Chapter 17-5, FAC, and applicable County regulations. No additional permits shall be required, but prior to each act of burning, the Division of Porestry shall be contacted to determine if satisfactory conditions exist for burning. Open burning shall not occur if the Division of Porestry has issued a ban on burning due to fire hazard conditions.

3. Sanitary Wastes

Disposal of sanitary wastes from construction toilet facilities shall be in accorance with applicable regulations of the appropriate local health agency.

4. Solid Wastes

Solid wastes resulting from construction shall be disposed of in accordance with the applicable regulations of Chapter 17-7, FAC.

5. Noise

Construction noise shall not exceed local noise ordinance specifications, nor those noise standards imposed by zoning.

6. Dust

The County shall employ proper dust-control techniques to minimize fugitive dust emissions.

7. Transmission Lines

The directly associated transmission lines from the Resource Recovery Facility electric generators to the existing Tampa Electric Company (TECO) substation shall be along the existing TECO right-of-way.

B. Environmental Control Program

An environmental control program shall be established under the supervision of a qualified person to assure that all construction activities conform to good environmental practices and the applicable conditions of certification.

If unexpected or harmful effects or evidence or irreversible environmental damage are detected during construction, the permittee shall notify the DER Southwest Florida District Office, 7601 Highway 301 North, Tampa, Florida, 33610, by telephone during the working day that the effect or damage occurs and shall confirm this in writing within seventy—two (72) hours of becoming aware of such conditions, and shall provide in writing an analysis of the problem land a plan to eliminate or significantly reduce the harmful effects of damage.

C. Reporting

- 1. Starting three (3) months after certification, a quarterly construction status report shall be submitted to the Southwest Florida District Office of the Department of Environmental Regulation. The report shall be a short narrative describing the progress of construction.
- Upon completion of construction the DER Southwest Florida District Office will be notified in order that a preoperational inspection can be performed.

II. OPERATION

A. Air

The operation of the Resource Recovery Facility shall be in accordance with all applicable provisions of Chapter 17-2, 17-4, and 17-7, Florida Administrative Code. In addition to the foregoing, the permittee shall comply with the following specific conditions of certification:

- 1. Emission Limitations
- a. Stack emissions from each unit shall not exceed the following:
- (1) Particulate matter: 0.021 grains per standard cubic foot dry gas corrected to 12% CO₂ with a maximum cap of 7.0 0175 lb Hpounds per hour per unit
- (2) 502: 3.2 lbs/ton of solid waste-fired, maximum 24 hour average 17 gr/dscf (rune restrictive) ,45 dsch en 8.5 lb/fm 34 Ave
 - (3) Nitrogen Oxides: 3 lbs/ton
 - (4) Carbon Monoxide: 1.8 lbs/ton .093 gr/d

Horield 10031 or or 100 16/ton Sulfuric Acid Mant 10040 gr or 1073/6/ton

- (5) VOC: 0.2 165/ton or .01 gr/dect (more restrictive)
- (6) Mercury: 2200 grams/day = 105./015
- (7) Odor: there shall be no objectionable odor
- (8) Visible emissions: opacity shall not be greater than 15% except that visible emissions with no more than 20% opacity may be allowed for up to three minutes in any one hour except during start up or upsets when the provisions of 17-2.250, FAC, shall apply. Opacity compliance shall be demonstrated in accordance with Florida Administrative Code Rule 17-2.700(6)(a)., DER Method 9.
- b. The height of the boiler exhaust stack shall not be less than 220 feet above grade.
- c. The incinerator boilers shall not be loaded in excess of their rated capacity of 36,666 pounds per hour each.
- d. The incinerator boilers shall have a metal name plate affixed in a conspicuous place on the shell showing manufacturer, model number, type waste, rated capacity and certification number.
- e. Compliance with the limitations for particulates, sulfur oxides, nitrogen oxides, carbon monoxide and lead shall be determined in accordance with Florida Administrative Code Rule 17-2.700, DER Methods 1, 2, 3, 5, 6, and 40 CFR 60, Appendix A, Method 7. Compliance with the opacity of stack emissions shall be demonstrated in accordance with Florida Administrative Code Rule 17-2.700(6)(a)9.. DER Method 9. The stack test shall be performed at +10% of the heat input rate of 150 million Btu per hour; however, compliance with the particulate matter emission limit shall be at design capacity.

- f. The permittee must submit to the Department within thirty (30) days after it becomes available, copies of technical
 data pertaining to the incinerator boiler design, to the electrostatic precipitator design, and to the fuel mix that can be used to
 evaluate compliance of the facility with the preceeding emission
 limitations.
- g. Grease, scum, grit screenings or sewage sludge will not be charged into the solid waste to energy facility boilers.
 - 2. Electrostatic. Precipitator

The electrostatic precipitator shall be designed and constructed to achieve a maximum emission rate of 0.021 grains per dscf.

- 3. Air Monitoring Program
- a. The permittee shall install and operate continuously monitoring devices for stack oxygen and opacity. The monitoring devices shall meet the applicable requirements of Chapter 17-2.710, FAC, and 40 CFR 60.45, and 40 CFR 60.13, including certification of each device.
- b. The permittee shall provide sampling ports into the stack and shall provide access to the sampling ports in accordance with Section 17-2.700(4), FAC.
- c. The permittee shall have a sampling test of the stack emissions performed by a commercial testing firm within 90 days of the start of operation of the boilers and annually from the date of testing thereafter.

4. Reporting

a. Two copies of the results of the stack tests shall be submitted within forty-five days of testing to the DER Southwest Florida-District Office.

b. Stack monitoring shall be reported to the DER Southwest District Office on a quarterly basis in accordance with Section 17-2.710, FAC, and 40 CFR, Part 60, Subsection 60-7.

B. Fuel

The Resource Recovery Facility shall utilize refuse such as garbage and trash (as defined in Chapter 17-7, FAC) but not sludge from sewage treatment plants as its fuel. Use of alternate fuels would necessitate modification of these Conditions of Certification.

C. Cooling Tower

- 1. Make-up Water Constituency
- a. The Resource Recovery Facility shall utilize only treated sewage effluent or stormwater runoff from the stormwater holding pond as cooling tower makeup water. The effluent shall have received prior to use in the tower, as a minimum, secondary treatment, as well as treatment described in Condition II.C.2 below. Use of waters other than treated sewage effluent or site stormwater, i.e., higher quality potable waters or lower quality less-than-secondarily treated sewage effluent will require a modification of conditions agreed to by the Southwest Florida Water Management District and the Department and must be approved by the Governor and Cabinet.
- b. Notwithstanding the provisions of condition
 II.C.1.(a), Hillsborough County may use potable water as cooling

tower makeup water: (i) on an interim basis for 24 months; (ii) on an emergency basis, after the Northwest Brandon Subregional Wastewater Treatment Plant is operational, whenever the wastewater treatment plant is unable to produce treated wastewater of suitable quality or quantities, if the County determines and the SWFWMD agrees that it is not feasible to use other sources of water; and (iii) under such other circumstances as may arise, if such use is approved in writing by the DER and SWFWMD.

- c. Hillsborough County may use treated effluent or potable water at any time as boiler makeup water.
- d. Hillsborough County will report to the SWFWMD the daily quantities of potable or fresh water utilized as makeup water for the cooling tower. This data will be supplied on a monthly basis, with reports due by the 10th day of the month following data collection.
- e. To implement condition II.C.1.(b)(ii), above, Hillsborough County shall submit reports to the SWFWMD concerning the feasibility of using other sources of water for emergency purposes. A progress report shall be submitted to SWFWMD on June 1, 1987 and a final report shall be submitted on June 1, 1988.

2. Chlorination

Chlorine levels in the cooling tower makeup water shall continuously be monitored, prior to insertion in the cooling towers.

Sewage effluent from the Brandon Subregional Wastewater Treatment Plant or alternate used as makeup shall be treated if necessary

to maintain a 1.0 mg/liter total chlorine residual after fifteen minutes contact time at average daily flow, whichever provides a higher level of public health protection.

D. Water Discharges

- 1. Any discharges from the site stormwater treatment system via the emergency overflow structure shall meet State Water Quality Standards, Chapter 17-3, FAC, shall comply with Hillsborough County and Southwest Florida Water Management District regulations, and shall comply with Chapter 17-25, FAC.
- 2. Cooling tower blowdown shall not be discharged to surface waters.

E. Operational Safeguards

The overall design and layout of the facilities shall be such as to minimize hazards to humans and the environment. Security control measures shall be utilized to prevent exposure of the public to hazardous conditions. The Federal Occupational Safety and Health Standards will be complied with during construction and operation. The safety standards specified under Section 440.56, Florida Statutes, by the Industrial Safety Section of the Florida Department of Commerce will be complied with during operation.

F. Transmission Lines

The directly associated transmission lines from the Resource Recovery Facility electric generator to the TECO Substation shall be kept cleared without the use of herbicides.

C. Noise

Operational noises shall not exceed local noise ordinance limitations nor those noise standards imposed by zoning.-

III. CHANGE IN DISCHARGE

All discharges or emissions authorized herein shall be consistent with the terms and conditions of this certification. The discharge of any regulated pollutant not identified in the application, or more frequent than, or at a level in excess of that authorized herein, shall constitute a violation of the certification. Any anticipated facility expansions, production increases, or process modifications which may result in new, different, or increased discharges or pollutants, change in fuel, or expansion in steam generating capacity must be reported by submission of a new or supplemental application pursuant to Chapter 403, Florida Statutes.

IV. NON-COMPLIANCE NOTIFICATION

- If, for any reason, the permittee does not comply with or will be unable to comply with any limitation specified in this certification, the permittee shall notify the Southwest Florida District Manager of the Department by telephone during the working day that said non-compliance occurs and shall confirm this in writing within seventy-two (72) hours of becoming aware of such conditions and shall supply the following information:
- A. A description of the discharge and cause on non-compliance; and
- B. The period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the non-complying event.

V. FACILITIES OPERATION

The permittee shall at all times maintain in good working order and operate as efficiently as possible any treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this certification. Such systems are not to be bypassed without prior Department approval.

VI. ADVERSE IMPACT

The permittee shall take all reasonable steps to minimize any adverse impact resulting from non-compliance with any limitation specified in this certification, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

VII. RIGHT OF ENTRY

The permittee shall allow the Secretary of the Florida Department of Environmental Regulation and/or authorized representatives, upon the presentation of credentials:

- A. To enter upon the permittee's premises where an effluent source is located or in which records are required to be kept under the terms and conditions of this permit, and
- B. To have access to and copy any records required to be kept under the conditions of this certification, and
- C. To inspect and test any monitoring equipment or monitoring method required in this certification and to sample any discharge or pollutants, and
- D. To assess any damage to the environment or violation of ambient standards.

VIII. REVOCATION OR SUSPENSION

This certification may be suspended or revoked pursuant to Section 403.512, Florida Statutes, or for violations of any of its conditions.

IX. CIVIL AND CRIMINAL LIABILITY

This certification does not relieve the permittee from civil or criminal penalties for non-compliance with any conditions of this certification, applicable rules or regulations of the Department or Chapter 403, Florida Statutes, or regulations thereunder.

Subject to Section 403.511, Florida Statutes, this certification shall not preclude the institution of any legal action or relieve the permittee from any responsibilities, or penalties established pursuant to any other applicable State Statutes, or regulations.

X. PROPERTY RIGHTS

The issuance of this certification does not convey any property rights in either real or personal property, nor any exclusive privileges, nor does it authorize any injury to public or private property or any invasion of personal rights nor any infringement of Federal, State or local laws or regulations.

XI. SEVERABILITY

The provisions of this certification are severable, and if any provision of this certification or the application of any provision of this certification to any circumstances is held invalid, the application of such provision to other circumstances and the remainder of the certification shall not be affected thereby.

XII. DEFINITIONS

The meaning of terms used herein shall be governed by the definitions contained in Chapter 403, Florida Statutes, and any regulations adopted pursuant thereto. In the event of any dispute over the meaning of a term in these general or special conditions which is not defined in such statutes or regulations, such dispute shall be resolved by reference to the most relevant definitions contained in any other state or federal statute or regulation or, in the alternative, by the use of the commonly accepted meaning as determined by the Department.

XIII. REVIEW OF SITE CERTIFICATION

The certification shall be final unless revised, revoked or suspended pursuant to law. At least every five years from the date of issuance of certification the Department shall review all monitoring data that has been submitted to it during the preceding five-year period for the purpose of determining the extent of the permittee's compliance with the conditions of this certification and the environmental impact of this facility. The Department shall submit the results of its review and recommendations to the permittee. Such review will be repeated at least every five years thereafter.

XIV. MODIFICATION OF CONDITIONS

Pursuant to Subsection 403.516(1), F.S., the Board hereby delegates the authority to the Secretary to modify any condition of this certification dealing with sampling, monitoring, reporting, specification of control equipment, related time schedules, 50₂ emission limitations subject to notice and opportunity for hearing, or any special studies conducted, as necessary to attain the objectives of Chapter 403, Florida Statutes.

All other modifications shall be made in accordance with Section 403.516, Florida Statutes.

State of Florida Department of Environmental Regulation Hillsborough County Energy Recovery Facility Case No. 83-19 CONDITIONS OF CERTIFICATION

Revised 6/17/86

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State of Florida
Hillsborough County
Energy Recovery Facility
Case No. PA 83-19
CONDITIONS OF CERTIFICATION

I. CONSTRUCTION

The facility shall be constructed, as a minimum, pursuant to the design standards presented in the application.

A. Control Measures

1. Stormwater Runoff

To control runoff during construction which may reach and thereby pollute Waters of the State, necessary measures shall be utilized to settle, filter, treat or absorb silt-containing or pollutant-laden stormwater to insure against spillage or discharge of excavated material that may cause turbidity in excess of 50 Jackson Turbidity Units above background in Waters of the State and to comply with Hillsborough County and Southwest Florida Water Management District stormwater regulations. Control measures may consist of sediment traps, barriers, berms, and vegetation plantings. Exposed or disturbed soil shall be protected and stabilized as soon as possible to minimize silt and sediment-laden runoff. The pH shall be kept within the range of 6.0 to 8.5.

2. Burning

Open burning in connection with land clearing shall be in accordance with Chapter 17-5, FAC, and applicable County regulations. No additional permits shall be required, but prior to each act of burning, the Division of Forestry shall be contacted to determine if satisfactory conditions exist for burning. Open burning shall not occur if the Division of Forestry has issued a ban on burning due to fire hazard conditions.

3. Sanitary Wastes

Disposal of sanitary wastes from construction toilet facilities shall be in accorance with applicable regulations of the appropriate local health agency.

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Solid wastes resulting from construction shall be disposed of in accordance with the applicable regulations of Chapter 17-7, FAC.

5. Noise

Construction noise shall not exceed local noise ordinance specifications, nor those noise standards imposed by zoning.

6. Dust

The County shall employ proper dust-control techniques to minimize fugitive dust emissions.

7. Transmission Lines

The directly associated transmission lines from the Resource Recovery Facility electric generators to the existing Tampa Electric Company (TECO) substation shall be along the existing TECO right-of-way.

B. Environmental Control Program

An environmental control program shall be established under the supervision of a qualified person to assure that all construction activities conform to good environmental practices and the applicable conditions of certification.

If unexpected or harmful effects or evidence or irreversible environmental damage are detected during construction, the permittee shall notify the DER Southwest Florida District Office, 7601 Highway 301 North, Tampa, Florida, 33610, by telephone during the working day that the effect or damage occurs and shall confirm this in writing within seventy-two (72) hours of becoming aware of such conditions, and shall provide in writing an analysis of the problem land a plan to eliminate or significantly reduce the harmful effects of damage.

C. Reporting

- 1. Starting three (3) months after certification, a quarterly construction status report shall be submitted to the Southwest Florida District Office of the Department of Environmental Regulation. The report shall be a short narrative describing the progress of construction.
- 2. Upon completion of construction the DER Southwest Florida District Office will be notified in order that a pre-operational inspection can be performed.

II. OPERATION

A. Air

The operation of the Resource Recovery Facility shall be in accordance with all applicable provisions of Chapter 17-2, 17-4, and 17-7, Florida Administrative Code. In addition to the foregoing, the permittee shall comply with the following specific conditions of certification:

- 1. Emission Limitations
- a. Stack emissions from each unit shall not exceed the following:
- (1) Particulate matter: 0.021 grains per standard cubic foot dry gas corrected to 12% CO_2 with a maximum cap of 7.0 pounds per hour per unit
- (2) SO₂: <u>3.2</u> lbs/ton of solid waste-fired, maximum 24 hour average
 - (3) Nitrogen Oxides: 3 lbs/ton
 - (4) Carbon Monoxide: 1.8 lbs/ton

- (5) VOC: 0.2 lbs/ton
- (6) Mercury: 2200 grams/day
- (7) Odor: there shall be no objectionable odor
- (8) Visible emissions: opacity shall not be greater than 15% except that visible emissions with no more than 20% opacity may be allowed for up to three minutes in any one hour except during start up or upsets when the provisions of 17-2.250, FAC, shall apply. Opacity compliance shall be demonstrated in accordance with Florida Administrative Code Rule 17-2.700(6)(a)., DER Method 9.
 - (9) Beryllium: 13.1×10^{-6} lbs/ton
- b. The height of the boiler exhaust stack shall not be less than 220 feet above grade.
- c. The incinerator boilers shall not be loaded in excess of their rated capacity of 36,666 pounds per hour each.
- d. The incinerator boilers shall have a metal name plate affixed in a conspicuous place on the shell showing manu-facturer, model number, type waste, rated capacity and certification number.
- e. Compliance with the limitations for particulates, sulfur oxides, nitrogen oxides, carbon monoxide and lead shall be determined in accordance with Florida Administrative Code Rule 17-2.700, DER Methods 1, 2, 3, 5, 6, and 40 CFR 60, Appendix A, Method 7. Compliance with the opacity of stack emissions shall be demonstrated in accordance with Florida Administrative Code Rule 17-2.700(6)(a)9., DER Method 9. The stack test shall be performed at $\pm 10\%$ of the heat input rate of ± 150 million Btu per hour; however, compliance with the particulate matter emission limit shall be at design capacity.

f. The permittee must submit to the Department within thirty (30) days after it becomes available, copies of technical data pertaining to the incinerator boiler design, to the electrostatic precipitator design, and to the fuel mix that can be used to evaluate compliance of the facility with the preceeding emission limitations.

g. Grease, scum, grit screenings or sewage sludge will not be charged into the solid waste to energy facility boilers.

2. Electrostatic Precipitator

The electrostatic precipitator shall be designed and constructed to achieve a maximum emission rate of 0.021 grains per dscf.

3. Air Monitoring Program

- a. The permittee shall install and operate continuously monitoring devices for stack oxygen and opacity. The monitoring devices shall meet the applicable requirements of Chapter 17-2.710, FAC, and 40 CFR 60.45, and 40 CFR 60.13, including certification of each device.
- b. The permittee shall provide sampling ports into the stack and shall provide access to the sampling ports in accordance with Section 17-2.700(4), FAC.
- c. The permittee shall have a sampling test of the stack emissions performed by a commercial testing firm within 90 days of the start of operation of the boilers and annually from the date of testing thereafter.

4. Reporting

a. Two copies of the results of the stack tests shall be submitted within forty-five days of testing to the DER Southwest Florida District Office.

b. Stack monitoring shall be reported to the DER Southwest District Office on a quarterly basis in accordance with Section 17-2.710, FAC, and 40 CFR, Part 60, Subsection 60.7.

B. Fuel

The Resource Recovery Facility shall utilize refuse such as garbage and trash (as defined in Chapter 17-7, FAC) but not sludge from sewage treatment plants as its fuel. Use of alternate fuels would necessitate modification of these Conditions of Certification.

C. Cooling Tower

- 1. Make-up Water Constituency
- a. The Resource Recovery Facility shall utilize only treated sewage effluent or stormwater runoff from the stormwater holding pond as cooling tower makeup water. The effluent shall have received prior to use in the tower, as a minimum, secondary treatment, as well as treatment described in Condition II.C.2 below. Use of waters other than treated sewage effluent or site stormwater, i.e., higher quality potable waters or lower quality less-than-secondarily treated sewage effluent will require a modification of conditions agreed to by the Southwest Florida Water Management District and the Department and must be approved by the Governor and Cabinet.
- b. Notwithstanding the provisions of condition II.C.l.(a), Hillsborough County may use potable water as cooling

tower makeup water: (i) on an interim basis for 24 months; (ii) on an emergency basis, after the Northwest Brandon Subregional Wastewater Treatment Plant is operational, whenever the wastewater treatment plant is unable to produce treated wastewater of suitable quality or quantities, if the County determines and the SWFWMD agrees that it is not feasible to use other sources of water; and (iii) under such other circumstances as may arise, if such use is approved in writing by the DER and SWFWMD.

- c. Hillsborough County may use treated effluent or potable water at any time as boiler makeup water.
- d. Hillsborough County will report to the SWFWMD the daily quantities of potable or fresh water utilized as makeup water for the cooling tower. This data will be supplied on a monthly basis, with reports due by the 10th day of the month following data collection.
- e. To implement condition II.C.l.(b)(ii), above, Hillsborough County shall submit reports to the SWFWMD concerning the feasibility of using other sources of water for emergency purposes. A progress report shall be submitted to SWFWMD on June 1, 1987 and a final report shall be submitted on June 1, 1988.

2. Chlorination

Chlorine levels in the cooling tower makeup water shall continuously be monitored, prior to insertion in the cooling towers.

Sewage effluent from the Brandon Subregional Wastewater Treatment Plant or alternate used as makeup shall be treated if necessary

to maintain a 1.0 mg/liter total chlorine residual after fifteen minutes contact time at average daily flow, whichever provides a higher level of public health protection.

D. Water Discharges

- 1. Any discharges from the site stormwater treatment system via the emergency overflow structure shall meet State Water Quality Standards, Chapter 17-3, FAC, shall comply with Hillsborough County and Southwest Florida Water Management District regulations, and shall comply with Chapter 17-25, FAC.
- 2. Cooling tower blowdown shall not be discharged to surface waters.

E. Operational Safeguards

The overall design and layout of the facilities shall be such as to minimize hazards to humans and the environment. Security control measures shall be utilized to prevent exposure of the public to hazardous conditions. The Federal Occupational Safety and Health Standards will be complied with during construction and operation. The safety standards specified under Section 440.56, Florida Statutes, by the Industrial Safety Section of the Florida Department of Commerce will be complied with during operation.

F. Transmission Lines

The directly associated transmission lines from the Resource Recovery Facility electric generator to the TECO Substation shall be kept cleared without the use of herbicides.

G. Noise

Operational noises shall not exceed local noise ordinance limitations nor those noise standards imposed by zoning.

III. CHANGE IN DISCHARGE

All discharges or emissions authorized herein shall be consistent with the terms and conditions of this certification. The discharge of any regulated pollutant not identified in the application, or more frequent than, or at a level in excess of that authorized herein, shall constitute a violation of the certification. Any anticipated facility expansions, production increases, or process modifications which may result in new, different, or increased discharges or pollutants, change in fuel, or expansion in steam generating capacity must be reported by submission of a new or supplemental application pursuant to Chapter 403, Florida Statutes.

IV. NON-COMPLIANCE NOTIFICATION

If, for any reason, the permittee does not comply with or will be unable to comply with any limitation specified in this certification, the permittee shall notify the Southwest Florida District Manager of the Department by telephone during the working day that said non-compliance occurs and shall confirm this in writing within seventy-two (72) hours of becoming aware of such conditions and shall supply the following information:

- A. A description of the discharge and cause on non-compliance; and
- B. The period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the non-complying event.

V. FACILITIES OPERATION

The permittee shall at all times maintain in good working order and operate as efficiently as possible any treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this certification. Such systems are not to be bypassed without prior Department approval.

VI. ADVERSE IMPACT

The permittee shall take all reasonable steps to minimize any adverse impact resulting from non-compliance with any limitation specified in this certification, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

VII. RIGHT OF ENTRY

The permittee shall allow the Secretary of the Florida Department of Environmental Regulation and/or authorized representatives, upon the presentation of credentials:

- A. To enter upon the permittee's premises where an effluent source is located or in which records are required to be kept under the terms and conditions of this permit, and
- B. To have access to and copy any records required to be kept under the conditions of this certification, and
- C. To inspect and test any monitoring equipment or monitoring method required in this certification and to sample any discharge or pollutants, and
- D. To assess any damage to the environment or violation of ambient standards.

VIII. REVOCATION OR SUSPENSION

This certification may be suspended or revoked pursuant to Section 403.512, Florida Statutes, or for violations of any of its conditions.

IX. CIVIL AND CRIMINAL LIABILITY

This certification does not relieve the permittee from civil or criminal penalties for non-compliance with any conditions of this certification, applicable rules or regulations of the Department or Chapter 403, Florida Statutes, or regulations thereunder.

Subject to Section 403.511, Florida Statutes, this certification shall not preclude the institution of any legal action or relieve the permittee from any responsibilities, or penalties established pursuant to any other applicable State Statutes, or regulations.

X. PROPERTY RIGHTS

The issuance of this certification does not convey any property rights in either real or personal property, nor any exclusive privileges, nor does it authorize any injury to public or private property or any invasion of personal rights nor any infringement of Federal, State or local laws or regulations.

XI. SEVERABILITY

The provisions of this certification are severable, and if any provision of this certification or the application of any provision of this certification to any circumstances is held invalid, the application of such provision to other circumstances and the remainder of the certification shall not be affected thereby.

XII. DEFINITIONS

The meaning of terms used herein shall be governed by the definitions contained in Chapter 403, Florida Statutes, and any regulations adopted pursuant thereto. In the event of any dispute over the meaning of a term in these general or special conditions which is not defined in such statutes or regulations, such dispute shall be resolved by reference to the most relevant definitions contained in any other state or federal statute or regulation or, in the alternative, by the use of the commonly accepted meaning as determined by the Department.

XIII. REVIEW OF SITE CERTIFICATION

The certification shall be final unless revised, revoked or suspended pursuant to law. At least every five years from the date of issuance of certification the Department shall review all monitoring data that has been submitted to it during the preceding five-year period for the purpose of determining the extent of the permittee's compliance with the conditions of this certification and the environmental impact of this facility. The Department shall submit the results of its review and recommendations to the permittee. Such review will be repeated at least every five years thereafter.

XIV. MODIFICATION OF CONDITIONS

Pursuant to Subsection 403.516(1), F.S., the Board hereby delegates the authority to the Secretary to modify any condition of this certification dealing with sampling, monitoring, reporting, specification of control equipment, related time schedules, SO₂ emission limitations subject to notice and opportunity for hearing, or any special studies conducted, as necessary to attain the objectives of Chapter 403, Florida Statutes.

All other modifications shall be made in accordance with Section 403.516, Florida Statutes.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

May 30, 1986

Mr. Bruce P. Miller Acting Chief Air Programs Branch U.S. EPA, Region IV 345 Courtland Street, N.E. Atlanta, Georgia 30365

Dear Mr. Miller:

RE: Final Determination - Hillsborough County Resource Recovery Facility, PSD-FL-104

Enclosed please find the department's response to your comments on the Final Determination for the subject project. We recommend that the applicant be granted Authority to Construct, subject to the conditions in the Final Determination as amended.

Sincerely,

C. H. Fancy, P.E

Deputy Chief Bureau of Air Quality Management

CHF/pa

Enclosure

cc: David S. Dee
Bill Thomas
Iwan Choronenko

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CARLTON, FIELDS, WARD, EMMANUEL, SMITH & CUTLER, P. A.

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May 20, 1986

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Mr. Ed Svec Bureau of Air Quality Management Department of Environmental Regulation 2600 Blair Stone Road Tallahassee, Florida 32301

Hillsborough County Resource Recovery Facility

Dear Ed:

I am sending you this letter to confirm our understanding about the comments you received from the U.S. Environmental Protection Agency concerning the Preliminary Determination and Draft Permit for the Hillsborough County resource recovery facility.

First, the EPA comment concerning Section 17-2.660, F.A.C., appears to be redundant. Section 17-2.660, F.A.C., establishes New Source Performance Standards that are based on the Clean Air Act, which is already cited in the Preliminary Determination. EPA believes there is a meaningful distinction between Section 17-2.660, F.A.C. and the previously cited regulations, we would like to be advised in writing of this distinction so that we can determine whether to oppose the proposed EPA language. If, as it appears, there is no distinction, we have no objection to the additional citation recommended by EPA.

We have no objections to EPA's comments in their paragraphs no. 2, 3, 4, and 5.

Mr. Ed Svec May 20, 1986 Page Two

With regard to EPA comment no. 6, Hillsborough County does not object to a permit requirement which states:

"Hillsborough County shall provide space at the resource recovery facility for the future installation, if necessary, of a wet or dry flue gas scrubber."

The Hillsborough County facility is already substantially complete. It has space for a scrubber, if a scrubber is required by DER or EPA in the future. Please note, however, that the facility would need substantial additional work and retrofitting before a scrubber could be installed.

Finally, Hillsborough County disagrees with EPA's comment no. 7. Hillsborough County proposed an emission rate of 0.048 pounds per ton for lead. EPA proposed the emission limit of 0.020 pounds per ton. After substantial discussion, Hillsborough County reluctantly agreed to a permit condition of 0.020 pounds per ton, but that limit was not proposed by the County.

Sincerely,

David S. Dee

DSD/mm

cc: Mary Cummings

Don Elias

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET ATLANTA, GEORGIA 30365 DER

MAY 9 1986

REF: 4APT/AP

BAQM

C. H. Fancy, P. E.
Bureau of Air Quality Management
Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, Florida 32301

Dear Mr. Fancy:

We have several comments on your March 25, 1986, PSD Preliminary Determination and Draft Permit for the Hillsborough County Energy Recovery Facility.

- Page 3: From our reading of the Florida regulations, it appears that the source would also be subject to 17-2.660, the state NSPS. If so, this should be mentioned in this paragraph, as well as at the end of this section and in IV.b. on Page 10.
- 2) Page 7: As agreed to by EPA in meetings with the County, the SO₂ 3-hour limitation of 8.5 lb/ton is to protect the NAAQS, and is not necessarily BACT. BACT is 3.2 lb/ton 24-hour average.
- 3) Page 27: In Condition (11), "(2)" should be "(3)". Condition (2) is an opacity limit.
- 4) Page 28: In b.(1), the eighth line should begin with "during each" instead of "with the".
- 5) Table II-1: The emission rate for mercury should be 0.89 instead of 1.1.
- 6) The permit should contain a requirement that the facility include provision for the future installation of a wet or dry flue gas scrubber, if deemed necessary by EPA. This requirement is described on pages 9 and 10 of the Preliminary Determination.
- 7) Since the County has agreed to 0.020 lb/ton limit for lead, the list of emission rates proposed by the applicant on page 7 of the Preliminary Determination should include 0.020 for lead, instead of 0.048.

If you have any questions about our comments, please contact Roger Pfaff at (404) 347-4253.

Sincerely yours,

Bruce P. Miller

Acting Chief Air Programs Branch

Air, Pesticides, & Toxics

Management Division

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

May 30, 1986

Mr. Bruce P. Miller Acting Chief Air Programs Branch U.S. EPA, Region IV 345 Courtland Street, N.E. Atlanta, Georgia 30365

Dear Mr. Miller:

RE: Final Determination - Hillsborough County Resource Recovery Facility, PSD-FL-104

Enclosed please find the department's response to your comments on the Final Determination for the subject project. We recommend that the applicant be granted Authority to Construct, subject to the conditions in the Final Determination as amended.

Sincerely,

C. H. Fancy, P.E.

Deputy Chief

Bureau of Air Quality Management

CHF/pa

Enclosure

cc: David S. Dee
Bill Thomas
Iwan Choronenko

Final Determination

Hillsborough County Energy Recovery Facility's Prevention of Significant Deterioration permit application has been reviewed by the Florida Bureau of Air Quality Management. Public notice of the Intent to Issue the permit was published in the Tampa Tribune on April 6, 1986.

Copies of the preliminary determination have been available for public inspection at the Florida Department of Environmental Regulation's Southwest District office in Tampa and the Bureau of Air Quality Management office in Tallahassee.

These comments on the preliminary determination and draft permit were received from the Unites States Environmental Protection Agency, Region IV:

- 1. Does the state NSPS (17-2.660) apply? Yes, it does apply. However, this section was adopted by reference and because this is a federal PSD permit, we do not feel that this cite is necessary.
- 2. The 3-hour SO_2 limit is not necessarily BACT. The mention of this limit as BACT has been stricken.

- 3. In Condition (11), the (2) should be (3). Condition (11) has been changed to reflect this.
- 4. Wording change on page 28: "During each" has been substituted for "with the" in paragraph b.(1).
- 5. Mercury emission rate in Table II-1: This is the rate proposed by the county at the time of the application. BACT for mercury was determined to be less than the county's proposal. No change is needed to Table II-1.
- 6. Scrubber condition: Condition 12 has been added to the permit. This condition requires that space for a scrubber be provided should the future installation of a scrubber be necessary.
- 7. Lead limit: The county proposed a lead limit of 0.048 lb/ton when they applied for the permit. After negotiating with the EPA, the county accepted a limit of 0.020 lb/ton. The statement on page 7 of the preliminary determination identifies the limits as "the applicant has proposed". For this reason, this lead limit will not be changed.

The Bureau of Air Quality recommends that the PSD permit be issued with the changes discussed above.

Final Determination

and Permit

Hillsborough County Energy Recovery Facility

Hillsborough County, Florida

PSD-FL-104

Prevention of Significant Deterioration

40 CFR 52.21

Review performed by Florida Department of Environmental Regulation

May 21, 1986

I. INTRODUCTION

Pursuant to Section 403.505, Florida Statutes, Hillsborough County applied to the Florida Department of Environmental Regulation (DER) in August 1984 for certification of a steam electric generating, solid waste energy recovery facility at a site about two miles east of the town of Tampa on the county's Faulkenburg Road site. After a thorough review by DER, including public hearings, the Florida Power Plant Siting Board issued a site certification to the County. At that time, DER believed that such a site certification constituted a legal prevention of significant deterioration (PSD) permit under Chapter 17-2.500 of the Florida air pollution regulations which had been approved by the U.S. Environmental Protection Agency (EPA) on December 22, In the summer of 1985, EPA became aware that the Florida Electrical Power Plant Siting Act (PPSA) under which the site certification was issued, restricts the authority of the State of Florida to implement any regulation pertaining to power plants other than those set out in the Act. Consequently, EPA determined that the Florida PSD regulations are superceded by the PPSA, and could not legally be approved by EPA as part of the State Implementation Plan (SIP) since the PPSA does not comply in part (as to PPSA covered sources) with EPA PSD regulations both procedurally and substantively. Thus, EPA concluded that the Hillsborough County energy recovery facility (ERF), which was under construction, did not possess a valid PSD permit. remedy for this situation was to issue an Order under Section 167 of the Clean Air Act for Hillsborough County to either cease construction or apply for a federal PSD permit under 40 CFR 52.21. EPA plans to issue in the near future a Federal Register notice clarifying its retention of PSD permitting authority as to sources subject to the PPSA. See also 51 Fed. Reg. 58 (Jan. 2, 1986).

On December 13, 1985, Hillsborough County applied to DER for a PSD permit. (By that time, DER had been given authority by EPA to conduct the technical and administrative steps of the federal PSD permitting process.) In conducting the PSD review, EPA decided that, due to the unique circumstances of this permit application, the best available control technology (BACT) analysis would be conducted taking into account the factors affecting BACT at the time the County submitted a complete application for a site certification. That date was August 16, 1984.

Hillsborough County did not agree that it lacks a valid PSD permit and sought judical review of the EPA order requiring a federal permit. Hillsborough County submitted to the federal PSD

permitting process under protest. EPA and Hillsborough County entered into a settlement whereby EPA agreed to propose this draft permit and Hillsborough agreed to dismiss its petition for review.

15.7

The proposed project will be an energy recovery facility boiler which could use up to 1200 tons per day (TPD) of refuse as fuel. A proposed boiler expansion could increase the total solid waste processing capacity of the plant to 1600 TPD. The steam from the new boiler will be sent to a turbine generator with a capacity of 29 megawatts (MW) (gross). Hillsborough County has contracted with a full service vendor to design, construct, and operate the plant for 20 years. Generated electricity will be transmitted to the Tampa Electric Company (TECO) for distribution over the TECO transmission system. The generating capacity of the expanded plant should be approximately 39 MW. The primary purpose of the facility is to dispose of solid waste. In addition to electricity, steam, ferrous metals, and aluminum could be recovered resources. Non-processible waste (including non-combustibles and demolition debris) and unusable residue will be buried at a licensed, off-site sanitary landfill. The sale of electricity, and eventually other processed and recovered resources, will help offset the overall cost of owning and operating the facility.

The Energy Recovery Facility (ERF) will be located on approximately 50.4 acres within the County's existing Faulkenburg Road tract. The site is located approximately 0.6 miles north of It is bordered by Faulkenburg Road on the east State Road 60. and a TECO 230 KV transmission line corridor on the west, and the Seaboard System Railroad on the south. The plant site is mostly level grassy land with scattered trees in the northwest portion. The site has been recently used as improved pasture for cattle The topography is fairly level, with elevation ranging from 27 to 45 feet above sea level across the tract. Geology of the site shows an overburden of sand and clay lying over limestone and dolomite which forms the Floridan aquifer. overburden forms a subsurface reservoir called the shallow The proposed facilities will consist of a 29 MW steam electric generating turbine; three 400 tons per day mass-burn solid waste fired boilers; a mechanical draft cooling tower utilizing treated sewage effluent; a 220 foot flue gas stack and electrostatic precipitators. Provisions are made to allow the addition of another 400 tons per day boiler.

Tampa Electric Company's existing 230 KV transmission line corridor will be used to transmit the electricity from the Energy Recovery Facility (ERF).

II. Rule Applicability

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The proposed site of the Hillsborough County ERF is in an area designated as nonattainment for ozone and particulate matter under 40 CFR 81.310, and attainment for all other criteria pollutants.

New major sources which emit attainment pollutants regulated under the Clean Air Act in amounts greater than certain significance levels, are subject to 40 CFR 52.21, Prevention of Significant Deterioration (PSD). The significance levels are specified by the PSD regulations.

New major sources in Hillsborough County which are subject to the PPSA and which are major for a nonattainment pollutant will be subject to 40 CFR 52.24 Statutory restriction on new stationary sources (construction ban). New municipal incinerators capable of charging greater than 50 TPD are also subject to 40 CFR 60, Subpart E, New Source Performance Standards (NSPS).

New municipal incinerators with a charging rate equal to greater than 50 TPD are also subject to Florida Rule 17-2.600(1)(c).

The applicant is proposing the construction of three 400 TPD mass burn technology incinerators for the processing of up to 1200 TPD of municipal solid waste. A fourth unit of similar size may be constructed in the future but will not be addressed in this review.

The maximum annual emissions from all three units for all regulated pollutants have been estimated by the applicant. These emission rates, and the PSD significant emission rates, are listed in Table II.1.

The proposed source has the potential to emit more than 100 tons per year of one or more regulated pollutants and is, therefore, subject to review for Prevention of Significant Deterioration (PSD) under 40 CFR 52.21. PSD review includes, among other requirements, a determination of Best Available Control Technology (BACT) and an air quality impact analysis for each attainment and noncriteria pollutant that would be emitted in a significant amount as listed in Table II-1. For the proposed source, the applicant has addressed PSD review for the eight pollutants which will be emitted in significant amounts: SO2, CO, NO $_{\rm X}$, Pb, Be, Hg, fluorides, and sulfuric acid mist.

The proposed source will emit less than 100 TPY of both particulate matter and VOC (precursor of ozone), and is thus not subject to the construction ban of 40 CFR 52.24. The proposed incinerators will each have a charging rate of 400 tons per day,

and thus are subject to NSPS and 17-2.600(1)(c). NSPS requires that the source meet a particulate emission rate of 0.08 grains per dry standard cubic foot (gr/dscf), corrected to 12% CO₂. Regulation 17-2.600(1)(c) requires each incinerator to emit no more than .08 gr/dscf particulate corrected to 50% excess air.

III. Preliminary Determination

As noted in Section I, Table II-1, the proposed source will result in significant emissions of the criteria pollutants SO_2 , CO, NO_X , and lead, and of the non-criteria pollutants mercury, beryllium, fluorides, and sulfuric acid mist.

The review required under the prevention of significant deterioration (PSD) regulations for these pollutants includes:

Compliance with all applicable SIP, NSPS, and National Emission Standards for Hazardous Pollutants (NESHAP) regulations

BACT

An analysis of existing air quality;

A PSD increment analysis (for SO₂ only);

An Ambient Air Quality Standards (AAQS) analysis;

An analysis of impacts on soils, vegetation, visibility, and growth-related air quality impacts, and;

A "Good Engineering Practice" (GEP) stack height determination.

The analysis of existing air quality generally relies on preconstruction monitoring data collected in accordance with EPA-approved methods. The PSD increment and AAQS analyses depend on air quality dispersion modeling carried out in accordance with EPA guidelines. BACT is specified on a case-by-case basis considering environmental, economic, and energy impacts.

Based on these required analyses, the Department has reasonable assurance that the proposed units at the Hillsborough County ERF, as described in this report and subject to the conditions of approval proposed herein, will employ BACT, will not cause or contribute to a violation of any PSD increment or ambient air quality standard, and will comply with all appplicable air pollution regulations. A discussion of all review components follows.

Table II-1

Hillsborough County Resource Project Proposed Annual Emmission Rates

Pollutant	Proposed Maximum Emission Rate (Ton/Yr)(1)	Significant Emission Rate for PSD Applicability	
Particulate Matter (PM) (2)	90	N/A	
Volatile Organic Compounds (2)		N/A	
Sulfur Dioxide (SO2)	701	40	
Carbon Monoxide (CO)	395	100 .	
Nitrogen Oxides (NOx)	657	40	
Lead (Pb)	4.4	0.6	
Mercury (Hs)	1.1	0.1	
Beryllium (Be)	0.003	0.0004	
Fluorides	13	3	
Sulfuric Acid Mist	17	7	
		_	

⁽¹⁾ Based on processing 1200 tons per day MSW for 365 days per year

⁽²⁾ Nonattainment Pollutant

IV. Control Technology Review

a. BACT Determination

40 CFR 52.21 (j) requires that each pollutant subject to PSD review must be controlled by BACT. For the proposed three unit plant, eight pollutants are subject to BACT. The BACT emission limits proposed by the Department are summarized as follows:

BACT
3.20 lb/ton 3.0 lb/ton
1.80 lb/ton
.020 lb/ton
2200 grams/day 1.3 x 10 ⁻⁵ 1b/ton
$1.3 \times 10^{-5} \text{ lb/ton}$
.077 lb/ton
.060 lb/ton

Also included as proposed permit conditions are limits on particulate emissions, opacity, and VOC. These limits are required to insure the emissions of particulate and VOC do not exceed the threshold level for applicability of the construction ban.

The applicant ultimately plans to construct a 1600 ton per day municipal solid waste (MSW) incinerator facility to be located on Faulkenburg Road in Tampa, Florida. The heat energy from combustion of the MSW will be used to produce steam to operate a 39 megawatt output turbine generator. Some of the electric energy produced will be used at the facility with the surplus power to be sold to the Tampa Electric Company.

The present plans are to install three 400 tons per day (TPD) incinerator-boiler units to process a total of 1200 TPD of MSW and generate 29 megawatts of electrical power. The fourth unit will be added at some future time. This BACT determination is for the three units only. Before the fourth unit is installed, the applicant must apply for a new permit for that unit.

Each incinerator will have an approximate heat input of 150 million Btu per hour, or 49 megawatts, based upon a MSW calorific content of 4500 Btu per pound. Each incinerator will be scheduled to operate 8760 hours per year and on this basis the tons per year of the various air pollutants emitted was calculated.

Based upon air pollutant emission factors provided by the applicant, the calculated total annual tonnage of regulated air pollutants emitted from the three units to the atmosphere is listed in Table II-1.

The applicant has proposed the following air pollutant emission limits, on a pound per ton basis: Particulate-0.41, CO-1.8, SO_2 -3.2, NO_X -3.0, Pb-0.048, Hg-0.0052, Be-13.1 x10⁻⁶, sulfuric acid mist-0.077, fluorides-0.06, and VOC-0.2 lb/ton. An electrostatic precipitator (ESP) will be used to control the particulate, Pb, Hg, and Be emissions. Design and operating procedures will control the emission of VOC, CO and NO_X . The firing of only MSW, a low sulfur content fuel, will limit SO_2 and sulfuric acid mist emissions.

The applicant has requested emission limits for SO₂ to be a 24-hour limit of 3.2 pounds per ton of MSW charged into the incinerator and a 3-hour limit of 8.5 pounds per ton of MSW charged into the incinerator. Emission test data from Westchester County, New York and Gallatin, Tennessee solid waste combustion sources indicate a range for SO₂ emissions from 2.6 to 3.5 pounds per ton of feed.

The 3.2 figure is judged to be BACT. The amount of SO_2 emitted would be comparable to the burning of distillate oil having a 0.35 percent sulfur content. Burning low sulfur fuel is one acceptable method of controlling SO_2 emissions. The installation of a flue gas desulfurization system to control SO_2 emissions is not warranted when burning MSW.

The mercury emission limit determined as BACT is equal to 69% of the National Emission Standard for Hazardous Air Pollutants (NESHAP), 40 CFR 61.50, Subpart E, for municipal waste water sludge incineration plants. The provisions of this subpart, however, do not apply because no grease, scum, grit screenings or sewage sludge will be incinerated in the proposed incinerators. According to the report "Air Pollution Control at Resource Recovery Facilities" issued by the California Air Resources Board, the average mercury emission factor when firing MSW is 4 x 10⁻⁴ pounds per million Btu. This amounts to 30 grams per hour per unit and is not considered to have a major impact on the environment. The applicant has proposed a mercury emission rate of 0.0052 lb/ton which is 0.0013 lb/ton higher than the referenced factor. The BACT is determined to be 2200 grams/day.

The uncontrolled emission of beryllium, according to the California report, when firing MSW is estimated to be 6.2 x 10⁻⁶ pounds per million Btu. Uncontrolled beryllium emissions would be approximately 11 grams per 24 hours or 0.01 TPY. The operating temperature of the particulate matter emission control device will be below 500 F. Operation below this temperature is

necessary to force absorption/condensation of beryllium oxides, present in the flue gas stream, onto available fly ash particles subsequently removed by the control device. Assuming 95% efficiency of the control device the annual beryllium emissions are estimated at 0.0007 tons per year. This amount of beryllium emitted is considered to have a negligible impact on the environment. The emission factor of 13.1 x 10^{-6} lb/ton MSW proposed by the applicant is judged to be BACT. If beryllium containing waste as defined in the National Emission Standards for Hazardous Air Pollutants (NESHAP), Subpart C, Subsection 61.31(g), were charged into the incinerator, emissions of beryllium to the atmosphere could not exceed 10 grams per 24 hours or an ambient concentration of 0.01 ug/m3, 30 day average. Compliance with this beryllium emission limit would be in accordance with NESHAP, Subpart C. However, the applicant has not applied to burn beryllium-containing waste, and the permit prohibits this activity.

The temperature of the incinerator combustion gases at the inlet to the particulate control device is estimated to be 425-475 °F. At these temperatures any lead would be in a nonvaporous state and would be removed by the particulate control device. The lead emission limit will initially be set at 0.020 pounds per ton of MSW charged into the incinerator. If the initial compliance tests show that the lead emissions are greater than or equal to 0.0080 pounds per ton, the lead emission limit of 0.020 pounds per ton will remain in effect. If the initial compliance tests show that the lead emissions are less than 0.0080 pounds per ton, the lead emission limit will be reduced to 0.010 pounds per ton. This level of control is judged to be BACT.

Since there are several secondary lead reclamation plants in the Tampa area, there is an economic incentive to recycle lead containing materials. The majority of lead emissions from an incinerator are expected to originate from solder joints in discarded electronic devices. The amount of lead emitted is not considered to have a significant impact upon the environment.

During combustion of municipal solid waste, NO_{X} is formed in high temperature zones in and around the furnace flame by the oxidation of atmospheric nitrogen and nitrogen in the waste. The two primary variables that affect the formation of NO_{X} are the temperature and the concentration of oxygen. Techniques such as the method of fuel firing to provide correct distribution of combustion air between overfire and underfire air, exhaust gas recirculation, and decreased heat release rates have been used to reduce NO_{X} emissions. A few add-on control techniques such as catalytic reduction with ammonia and thermal de- NO_{X} are still experimental, and are not considered to be demonstrated technology for the proposed project.

The proposed units will use proprietary grate and combustion controls to limit NO_X emissions at 3.0 pounds per ton of MSW charged. This level of control is judged to represent BACT.

Carbon monoxide is a product of incomplete combustion where there is insufficient air. Incomplete combustion will also result in the emissions of solid carbon particulates in the form of smoke or soot and unburned and/or partially oxidized hydrocarbons. Incomplete combustion results in the loss of heat energy to the boiler. The department agrees with the applicant that BACT is the grate and combustion control system to insure sufficient mixing of the MSW and air so that the emission of products of incomplete combustion is minimized. The proposed CO emission rate is 1.8 pounds per ton. This level of control is judged to represent BACT.

Furthermore, CO has a calorific value of 4347 Btu/lb and when discharged to the atmosphere represents lost heat energy. Since heat energy is used to produce the steam which drives the generator to produce electric power, there is a strong economic incentive to minimize CO emissions.

Particulate matter emissions will be controlled by an electrostatic precipitator (ESP). Each of the three proposed boilers will be equipped with its own ESP which will be efficient to 0.021 grains per dry standard cubic foot corrected to 12% $\rm CO_2$ at the outlet. At this emission rate, particulate matter emissions for the facility will be approximately 96 tons per year.

VOC emissions, like carbon monoxide emissions, result from incomplete oxidation of carbon compounds. Control of CO and VOC emissions can be mutually supportive events.

The applicant indicates that sulfuric acid mist and fluorides will be emitted by the proposed facility. The applicant estimates that sulfuric acid mist will be emitted at a rate of 0.0768 pounds per ton of fuel combusted. This equates to a rate of 3.8 pounds per hour or 16.8 tons per year. The significant emission rate for sulfuric acid mist is 7.0 tons per year. Emissions of fluoride are estimated at 0.06 pounds per ton of fuel combusted. At this emission rate, fluorides would be emitted at a rate of 3.0 pounds per hour or 13.1 tons per year. The significant emission rate for fluoride is 3.0 tons per year. Control of these acid gas emissions would be obtained by a scrubber. However, at the level of these acid gas emissions, the addition of a scrubber for acid gas control would be uneconomical. No control is judged to represent BACT. In addition, BACT for the control of acid gas emissions is that the initial design of the proposed facility include provisions for

the possible future installation of a wet or dry flue gas scrubber system, if deemed necessary.

b. NSPS and Florida SIP Limit Analysis

These two regulations dictate similar emission limits using slightly different units. The proposed particulate emission limit of 0.021 gr/dscf is far below either of these limits.

V. Air Quality Analyses

The air quality impact of the proposed emissions has been analyzed. Atmospheric dispersion modeling has been completed and used in conjunction with an analysis of existing air quality data to determine maximum ground-level ambient concentrations of the pollutants subject to BACT. Based on these analyses, the department has reasonable assurance that the proposed solid waste recovery facility in Hillsborough County, subject to these BACT emission limitations, will not cause or contribute to a violation of any PSD increment or ambient air quality standard.

a. Modeling Methodology

The EPA-approved Industrial Source Complex Short-term (ISCST) dispersion model was used in the air quality impact analysis. This model determines ground-level concentrations of inert gases or small particles emitted into the atmosphere by point, area and volume sources. The ISCST model allows for the separation of sources and several other features, such as the inclusion of building wake downwash. This model was used in both screening and refined analyses.

All modeling was completed assuming the operation of four incinerators. Since the current plans are for the construction of only three incinerators, the modeling results represent a slightly conservative estimate of ambient concentrations.

Screening analyses were initially run using 26 prescribed meteorological conditions with the stack and emission data of the proposed ERF. These runs determined the worst-case boiler operating condition, identified those pollutants emitted from the ERF with a potential for significant impact, and established receptor locations for the more refined modeling. The results of these analyses indicated that a 110 percent boiler load condition (440 tons per day throughput) yielded the greatest air quality impact with the maximum ground-level concentrations occurring approximately 400 meters from the stack.

The refined modeling analysis consisted of running ISCST using five years of sequential hourly meteorological data. The surface and upper air meteorological data used were National Weather Service data collected at Tampa, Florida during the period 1970-1974. Since five years of data were used, the highest, second-high short-term predicted concentrations are compared with the appropriate ambient standard or PSD increment.

An initial set of refined runs was made with emissions only from the proposed ERF. The significant impact area for SO_2 was then determined. This area is defined as the area enclosed by a circle whose radius is equal to the farthest distance from the facility in which a significant impact occurs. A significant impact is defined as 25 ug/m^3 for a 3-hour average, 5 ug/m^3 for a 24-hour average, and 1 ug/m^3 for an annual average. For this project the significant impact area extends to a distance of approximately one kilometer. Beyond this distance the ERF is assumed to have an insignificant SO_2 impact.

Modelled emission rates for some pollutants were higher than the BACT limits, which produced conservative estimates of ambient impacts. For a comparison of these rates, Table V-2 should be compared to the BACT emission rates in Section IV.a.

Other major SO₂ sources within about 30 kilometers of the proposed facility were modeled for impact within the significant impact area. The impacts of the other emitted pollutants were evaluated using emissions from the ERF only. Total ambient air quality impacts were based on the modeled impacts plus the monitored "background" concentrations.

The stack parameters and emission rates used in evaluating the ambient impacts are contained in Table V-1 and Table V-2, respectively. Copies of some of the critical model outputs and a description of the refined modeling analysis are attached to this determination in Appendix 1. Complete modeling printouts are available at the DER offices in Tallahassee, Florida.

b. Analysis of Existing Air Quality

Preconstruction ambient air quality monitoring is required for all pollutants subject to PSD review. In general, one year of quality assured data using an EPA-reference, or the equivalent, monitor must be submitted. Sometimes less than one year of data, but no less than four months, may be accepted when department approval is given.

Table V-1
Hillsborough County Resource Recovery Project
Source Parameters

Source	UTM-E (km)	UTM-N (km)	SO ₂ (g/s)	Stack Height (m)	Temp. (K)	Exit Vel. (m/s)	Stack Dia. (m)
PSD Sources							
Hillsborough Co. RRF	368.2	3092.7	29.6	67.0	494	16.9	3.50
Pinellas RRF 1-3	335.2	3084.1	31.5	49.1	505	26.8	2.37
McKay Bay RRF	360.0	3091.9	21.4	45.7	500	21.3	1.91
TECO Big Bend	361.9	3075.0	8598	149.4	426	15.6	7.00
NAAQS Sources						·	
FPC Bartow FPC Higgins FPC Anclote #1 FPC Anclote #2	342.4	3082.7	722.2	91.4	408	44.0	3.35
	336.5	3098.5	286.7	53.0	422	10.4	3.81
	324.9	3119.0	1631.9	152.1	416	50.0	3.66
	324.9	3119.0	816.0	152.1	416	28.3	3.66
TECO Hooker Pt. #1)	358.0	3091.0	41.30	85.4	402	18.2	3.40
TECO Hooker Pt. #2)	358.0	3091.0	41.30	85.4	402	18.2	3.40
TECO Hooker Pt. #3)	358.0	3091.0	37.00	85.4	397	11.5	3.70
TECO Hooker Pt. #4)	358.0	3091.0	57.00	85.4	397	11.5	3.70
TECO Hooker Pt. #5)	358.0	3091.0	84.00	85.4	402	18.2	3.40
TECO Hooker Pt. #6)	358.0	3091.0	107.00	85.4	436	17.9	2.90
TECO Gannon #1 TECO Gannon #2 TECO Gannon #3 TECO Gannon #4 TECO Gannon #5 TECO Gannon #6	360.0 360.0 360.0 360.0 360.0	3087.5 3087.5 3087.5 3087.5 3087.5	282.5 282.5 321.4 421.6 513.4 853.6	93.3 93.3 93.3 93.3 93.3	438 438 427 443 415	22.5 32.4 35.4 24.6 20.6 23.7	3.70 3.10 3.20 2.90 4.50 5.40
General Portland	358.0	3090.6	349	44.3	473	6.6	4.72
Gardinier	363.4	3082.4	473.3	29.4	333	9.1	2.10
Gardinier	363.4	3082.4	-210.26	36.5	344	11.8	2.00

Table V-1 (cont.)

	UTM-E	UTM-E	so ₂	Stack Heigh t	Temp.	Exit Vel.	Stack Dia.
Source	(km)	(km)	(g/s)	(m)	(K)	(m/s)	(m)
AMAX (Pt. No.)	393.8	3096.3	•				
			12.0	30.5	335.1	12.0	1.37
01			3.3	24.4	315.8	8.9	1.67
02			17.6	46.3	308.6	11.0	1.76
03			29.0	45.7	315.6	15.9	1.76
05			2.8	6.1	550.2	15.3	0.40
19			1.4	3.4	605.2	20.2	0.37
20			27.1	46.3	298.0	13.1	1.76
26 - 28			2.1	10.6	605.2	15.3	0.36
29			×.				
CF Industries (Pt. No.)	380.0	3115.7					
01			6.1	7.5	560.0	19.7	1.07
10			6.2 ,	28.7	316.3	7.2	3.05
11			9.2	54 .9	321.9	12.6	2.79
12			13.7	54.9	315.2	9.8	2.79
13			13.7	54.9	324.7	10.5	2.79
Chloride Metals (Pt. No.)	361.8	3008.3					
01			10.1	32.2	346.7	27.8	0.58
04			10.1	29.9	363.0	14.4	0.61
Columbia Paving	366.7	3077.8	3.7	12.2	339.7	22.3	1.37

Table V-1 (cont.)

Source	UTM-E (km)	UTM-E (km)	SO ₂ (g/s)	Stack Height (m)	Temp. (K)	Exit Vel. (m/s)	Stack Dia. (m)
Columbus Company	361.9	3077.8	4.8	12.6	449.7	20.0	1.24
Couch Construction	364.3	3098.1	3.3	10.4	390.8	17.2	1.41
Delta Asphalt	372.1	3105.4	4.8	8.4	381.3	20.6	1.17
Gulf Coast Lead co.	363.9	3093.8	47.2	29.6	347.4	24.9	0.62
IMC Port Sutton	360.1	3087.5	41.5	19.8	338.6	10.5	2.41
	300,1	3007.5	1200	1,,,,	330.0	10.5	2.41
Thatcher Glass (Pt. No.)	361.2	3103.3	2.6	41.1	694.1	9.4	1.52
Furnace No. 1			2.6	41.1	656.9	11.4	1.52
Furnace No. 2			_ , .				
Nitram	363.2	3089.0	3.1	27.4	505.2	10.8	1.37
National Gypsum (Pt. No.)	347.3	3082.7					
Dryer No. 1/Zone 1			0.66	12.5	388.6	8.5	1.07
Zone 2			0.66	12.5	424.7	9.1	0.91
Zone 3			0.66	12.5	330.2	9.1	0.91
2 2/2 150			1 0	10.1	/01 0	20. 7	0.76
							0.76
							0.76
Zone 4			0.5	11.3	394.1	25.9	0.91
Zone 2							0

Table V-2 Hillsborough County Resource Recovery Project Maximum Hourly Emission Rates Used in Modeling

Pollutant	Emission Ra lb/ton	tes (1) g/s
Particulate Matter	0.38	3.5
Sulfur Dioxide	3.2 (2)	29.6
Carbon Monoxide	1.8	16.6
Nitrogen Oxides	3.0	27.7
Lead	0.02	0.185
Hydrocarbons (non-methane)	0.2	1.85
Mercury	0.0052	0.048
Beryllium	0.0000131	0.000121
Fluorides	0.06	0.554
Sulfur Acid Mist	0.0768	0.710
Hydrogen Chloride	4.0	37.9

⁽¹⁾ Based on a throughput of 110 percent of design capacity and the operation of four incinerators

^{(2) 3.2} lb/ton was used for 24-hour and annual average modeling and $8.5 \ lb/ton$ was used for 3-hour average modeling

An exemption to the monitoring requirement can be obtained if the maximum air quality impact, as determined through air quality modeling, is less than a pollutant-specific deminimus concentration. In addition, if current monitoring data already exist and these data are representative of the proposed source area, then at the discretion of the Department these data may be used. Such representative data must meet criteria for location, quality, and currentness outlined in EPA publication 450/4-80-012, Ambient Monitoring Guidelines for Prevention of Significant Deterioration.

The predicted maximum air quality impacts of the proposed ERF for the eight pollutants subject to PSD review are given in Table V-3 along with the monitoring deminimus levels. From this table it is seen that SO_2 , lead, and fluorides have maximum predicted air impacts greater than the deminimus levels and are thus subject to preconstruction monitoring requirements. Sufficient data in the area, however, exists for SO_2 and lead. The department did not require additional monitoring for these pollutants, since the existing data comply with the requirements of EPA 450/4-80-012. Although fluorides are subject to the monitoring requirements, no EPA-approved method currently exists to measure the ambient concentration of this pollutant. Also, requirement for monitoring of noncriteria pollutants is at the discretion of the Department.

Table V-4 shows the monitored ambient air quality levels for the most recent year (1983) for all the criteria pollutants, including the required data for SO_2 and lead. These data were collected from existing monitors in Hillsborough County.

c. PSD Increment Analysis

1. Class II Area

The proposed Hillsborough County ERF is to be located in an area designated as a Class II attainment area for the pollutant SO₂. Because the proposed facility is to be located in an area designated as nonattainment for PM, a PSD increment analysis is required for SO₂ only.

The PSD increments represent the amount that new sources in the area may increase ambient ground-level concentrations of SO₂ and PM. At no time, however, can the increased loading of these pollutants cause or contribute to a violation of the ambient air quality standards.

All ${\rm SO}_2$ emission increases from sources constructed or modified after December 1977 will consume PSD increment.

Pollutant	Maximum Modeled Concentration (1)(ug/m ³)	De Minimus Ambient Impact Level (ug/m³)
SO ₂ (24-hour)	21.6	13
CO (8-hour)	16.3	5 7 5
NO ₂ (Annual)	1.0	1 4
Lead (24-hour)	0.14	0.1
Mercury (24-hour)	0.035	0.25
Beryllium (24-hour)	0.000088	0.00050
Fluorides (24-hour)	0.405	0.25
Sulfuric Acid Mist	0.52	-
PM (2)	2.6	10

⁽¹⁾ Highest second-high concentration assuming four incinerators

⁽²⁾ PM included for informational purposes.

Table V-4

Hillsborough County 1983 Monitoring Data in the Vicinity of the Proposed Resource Recovery Facility

			posed Facility	Averaging	Concentration	
Pollutant	Site	Direction	Distance (km)	Time	Category	Concentration (ug/m ³)
SO ₂	4360-052	278°	9.9	3-hour 24-hour	Second-high Second-high	493 86
				Annual	Highest	16
NO ₂	4360-052	278°	9.9	Annual	Highest	35
СО	4360-052	278°	9.9	1-hour 8-hour	Second-high Second-high	12,600 5,700
Lead	1800-082	285°	3.3	Calendar quarter	Highest	0.8
PM(1)	1800-082	285°	3.3	24-hour Annual	Second-high Highest	115 54
03(1)	4360-035	259°	11.5	1-hour	Second Daily H	ligh 281

⁽¹⁾ Nonattainment Pollutants

In addition, all SO₂ emission increases associated with the construction or modification of major sources which occurred after January 6, 1975, will consume increment. For the proposed project all emissions from the ERF consume increment. Several other sources in the area have been identified by the applicant as also consuming PSD increment and have been included in the analysis.

The Department has identified four other sources as having the potential to consume additional PSD increment for SO₂. These sources are the Columbus Company, Couch Construction Company, Weyerhaeuser Company, and Scrapall Company. The first two were included in the modeling for determination of total impact but not for the determination of increment consumption. The latter two were not included in any modeling. A review of these sources indicated that only Columbus Company and Couch Company could potentially have a significant impact on increment consumption in the area of the proposed project. These sources will not interact with the increment consuming sources already modeled by the consultant.

It should be noted that the major increment consuming source identified by the applicant is the TECO Big Bend power plant. All units at this plant were modeled as increment consuming. In actuality only Unit 4 consumes increment and these emissions are largely offset by emission decreases (increment expansion) from Units 1, 2 and 3. As such, increment consumption is greatly overestimated.

Atmospheric dispersion modeling was performed taking into account only those new sources which consume PSD increment. The results of this modeling are summarized in Table V-5.

2. Class I Areas

A Class I area increment analysis is required for the Chassahowitzka National Wilderness Area located 79.6 kilometers to the north-northwest. The impact of the proposed ERF on this Class I area was determined. Although the distance to the Class I areas is greater than 50 kilometers (the distance to which the models are generally considered valid) the results indicate an extremely small (insignificant) impact on this area.

Table V-5

Comparison of New Source Impacts with PSD Increments

Pollutant and Averaging Time	PSD Class II Increment (ug/m ³)	Predicted Increased Concentration (ug/m ³)	Increment Consumed (%)	PSD Class I Increment (ug/m ³)	Predicted Increased Concentration (ug/m ³)
so ₂					
3-hour	512	465	91	25	<1
24-hour	91	87	96	5	<1
Annual	20	5	2 5	2	<<1

d. AAQS Analysis

Given existing air quality in the area of the proposed Hillsborough County ERF, emissions from the new source are not expected to cause or contribute to a violation of an AAQS. The results of the AAQS analysis are contained in Table V-6.

Of the pollutants subject to PSD review only the criteria pollutants SO_2 , CO, NO_2 , and lead have an AAQS to compare with. All sources listed in Table V-1 were modeled to determine the maximum ground-level impacts for SO_2 within the area of significant impact. For CO, NO_X , and lead only the proposed ERF was modeled to determine the maximum ground-level concentrations.

The total impact on ambient air is obtained by adding a "background" concentration to the maximum modeled concentration. This "background" concentration takes into account all sources of the particular pollutant in question that were not explicitly modeled. A conservative estimate of these "background" concentrations is given by the second highest monitored concentration listed in Table V-4. This is a conservative estimate because sources used in the modeling may have contributed to the monitored value and hence contribute doubly to the total impact.

VI. Additional Impacts Analysis

a. Impacts on Soils and Vegetation

The maximum ground-level concentrations predicted to occur for the criteria pollutants as a result of the proposed project in conjunction with all other sources, including a background concentration, will be below all applicable AAQS including the secondary standards designed to protect public welfare-related values. As such these pollutants are not expected to have a harmful impact on soils and vegetation.

The applicant has additionally addressed the impacts of the noncriteria pollutants. No soils or species of vegetation near the proposed project are known to be sensitive to these pollutants at the concentrations predicted to occur. These pollutants include sulfuric acid mist, fluorides, mercury, beryllium, and hydrochloric acid. Hydrochloric acid (HCL) is not one of the PSD review pollutants but was included at the Department's request because of its large emissions.

Table V-6

Comparison of Total Impacts with Ambient Air Quality Standards

Pollutant and Averaging Time	Maximum Impact Project	Maximum Impacts All Sources (ug/m ³)	Existing Background (ug/m ³)	Maximum Total Impact (ug/m ³)	National AAQS (ug/m ³)
SO ₂ 3-hour 24-hour Annual	106 22 1	519 163 9	493 86 16	1012 249 25	1 3 00 365 80
CO 1-hour 8-hour	32 16	- -	12600 5700	12632 5716	40,000 10,000
NO ₂ Annual	1	-	35	36	100
Lead Quarterly	0.14 1	-	0.8	0.9	1.5

¹ The maximum quarterly average was conservatively estimated by using the maximum 24 hour average

b. Impact on Visibility

A level-1 visibility screening analysis was performed to determine any impact on the Chassahowitzka National Wilderness Class I area. The analysis showed that there was no potential for an adverse impact on visibility in this area due to emission from the proposed project.

c. Acid Rain Impact

The increased emissions of SO_2 and NO_X , precursors to possible acid formation and subsequent acidic rain, from the proposed project are extremely small in comparison with the emissions of these pollutants from nearby power plants. Thus, no significant adverse impact on the acidity of rainfall is expected as a result of this project.

d. Growth-Related Air Quality Impacts

The construction and operation of the proposed source will have a minor positive net effect on industrial and commercial development. The source will promote development by providing for solid waste disposal, and thereby be an integral part of the plans for development within Hillsborough County. On a regional basis this effect is not expected to be significant. The project is not expected to significantly change employment, population, housing, or commercial/industrial development in the area to the extent that an air quality impact will result.

e. GEP Stack Height Determination

Good engineering practice (GEP) stack height means the greater of: (1) 65 meters; or (2) the maximum nearby building height plus 1.5 times the building height or width, whichever is less. For the proposed project the building height is 42.7 meters above ground level and the projected width is 56.4 meters. Thus definition (2) above leads to a GEP stack height of 106.8 meters.

The proposed stack height is 67 meters. This is less than the GEP height. The applicant has addressed the possible increased ground-level concentrations (as a result of aerodynamic effects of the nearby building) by including a downwash mechanism in the modeling.

VII. Nonattainment Review

EPA announced approval of Florida's new source review program for major sources in designated nonattainment areas on March 18, 1980 (45 FR 17140). Subsequently, in 1985, EPA discovered that the

Florida Power Plant Siting Act supercedes in part the nonattain-ment new source review regulations under Florida law. Consequently, the Florida SIP is deficient with respect to electrical power plants. EPA plans to issue, in the near future, a federal register notice clarifying that two sets of nonattain-ment regulations will apply:

- (1) For sources located in designated nonattainment areas, EPA's construction ban (40 CFR 52.24) applies to major sources and major modifications, and
- (2) For sources locating in designated attainment or unclassifiable areas, EPA's Interpretative Ruling (40 CFR 51.18 Appendix S) will apply to major sources and major modifications.

The proposed source will be located in an area designated nonattainment for particulate matter and ozone, but is not a major source for either pollutant, and thus will not subject to the construction ban. The source will be located 43.5 kilometers from an SO₂ nonattainment area and is a major source for SO₂. Under the Interpretative Ruling, the proposed source would be subject to certain more stringent requirements if the impact of its SO₂ emissions on the nearby nonattainment area exceeded 1 ug/m³ annual average, 5 ug/m³ 24-hour average, or 25 ug/m³ 3-hour average. The modeling analysis shows the impact of the proposed source to be less than each of those levels, so the Interpretative Ruling will not apply.

PERMIT TO CONSTRUCT UNDER THE RULES FOR THE PREVENTION OF SIGNIFICANT DETERIORATION OF AIR QUALITY

Pursuant to and in accordance with the provisions of Part C, Subpart 1 of the Clean Air Act, as amended, 42 U.S.C. ¶7470 et. seq., and the regulations promulgated thereunder at 40 CFR ¶52.21, as amended at 45 Fed. Reg. 52676, 52735-41 (August 7, 1980).

Hillsborough County, Florida

is, as of the effective date of this permit (PSD-FL-104) authorized to construct a stationary source at the following location:

Two miles east of Tampa on a site owned by the County on Faulkenburg Road, 0.6 miles north of State Road 60.

Upon completion of authorized construction and commencement of operation/production, this stationary source shall be operated in accordance with the emission limitations, sampling requirements, monitoring requirements and other conditions set forth in the attached Specific Conditions (Part I) and General Conditions (Part II)

This permit is hereby issued on _____ and shall become effective thirty (30) days after receipt hereof unless a petition for administrative review is filed with the Administrator during that time. If a petition is filed any applicable effective date shall be determined in accordance with 40 CFR ¶124.19(f)(1).

If construction does not commence within 18 months after the effective date of this permit, or if construction is discontinued for a period of 18 months or more, or if construction is not completed within a reasonable time, this permit shall expire and authorization to construct shall become invalid.

This authorization to construct/modify shall not relieve the owner or operator of the responsibility to comply fully with all applicable provisions of

Date S	Signed	Regional	Administrator

PART I

Specific Conditions

- 1. Emission Limitations
 - a. Stack emissions from each unit shall not exceed the following:
 - (1) Particulate matter: 0.021 grains per dry standard cubic foot corrected to 12% CO₂ (gr/dscf-12%) or 7.0 pounds per hour per unit, whichever is more restrictive.
 - (2) Visible Emissions: Opacity of stack emissions shall not be greater than 15% opacity except that 20% opacity may be allowed for one six-minute period (average of 24 consecutive observations recorded at 15-second intervals) in any one hour. Excess opacity resulting from startup or shutdown shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess opacity shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by EPA for longer duration.

Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during start-up or shutdown shall be prohibited. Opacity of other emission points at the plant shall not exceed 5%.

- (3) VOC: 0.01 gr/dscf-12%, or 0.2 lb/ton, whichever is more restrictive
- (4) SO₂: 0.17 gr/dscf-12% or 3.2 lb/ton, whichever
 is more restrictive, 24-hour average,
 0.45 gr/dscf-12% or 8.5 lb/ton, whichever is more
 restrictive, 3-hour average
- (5) Nitrogen Oxides: 0.16 gr/dscf-l2%, or 3.0 lb/ton, whichever is more restrictive
- (6) Carbon Monoxide: 0.093 gr/dscf-12%, or 1.8 lb/ton, whichever is more restrictive.

- (7) Lead: 0.00104 gr/dscf-12%, or 0.020 lb/ton, whichever is more restrictive.
- (8) Fluorides: 0.0031 gr/dscf-12%, or 0.060 lb/ton, whichever is more restrictive.
- (9) Sulfuric Acid Mist: 0.0040 gr/dscf-12%, or 0.077 lb/ton, whichever is more restrictive.
- (10) Beryllium: 6.8 x 10-7 gr/dscf-12%, or 1.3 x 10-5 lb/ton, whichever is more restrictive.
- (11) Each of the emission limits in conditions (1) and (3) through (10) is to be expressed as a 3-hour average. This averaging time, which is applicable to the emission limits for all pollutants, is based on the expected length of time for a particulate compliance test. The concentration standards in conditions (3) through (10) are included as the primary compliance limit to facilitate simpler compliance testing, since the process weight, in tons per hour, is not easily measured. concentration limit is intended to be equivalent to the lb/ton limit. The concentration limits were derived by dividing the lb/ton limits by the calculated volume of flue gas produced when one ton of refuse is combusted. If actual process conditions, i.e., dscf per ton of refuse fired, are different than projected by the applicant, EPA may, at its discretion, determine compliance based upon the lb/ton limits.
- (12) Mercury: 2200 grams/day
- (13) The potential for dust generation by ash handling activities will be mitigated by quenching the ash prior to loading in ash transport trucks.

 Additionally, all portions of the proposed facility including the ash handling facility which have the potential for fugitive emissions will be enclosed. Also those areas which have to be open for operational purposes, e.g., tipping floor of the refuse bunker while trunks are entering and leaving, will be under negative air pressure.
- (14) Each of the three units is subject to 40 CFR Part 60, Subpart E, New Source Performance Standards

(NSPS), except that where requirements in this permit are more restrictive, the requirements in this permit shall apply.

(15) Only natural gas will be used as an auxillary fuel.

b. Compliance Tests

(1) Compliance tests for particulate matter, SO₂, nitrogen oxides, CO, VOC, sulfuric acid mist, fluorides, mercury and beryllium shall be conducted in accordance with 40 CFR 60.8 (a), (b), (d), (e), and (f), except that an annual test will be conducted for particulate matter. Compliance tests for opacity will be conducted simultaneously during each compliance test run for particulate matter.

Compliance tests shall be conducted for such time and under such conditions as specified by EPA prior to the compliance test. These conditions will be specified by EPA upon notification of performance tests as required by General Condition 1. The permittee shall make available to EPA such records as may be necessary to determine the conditions of the performance tests.

- (2) The following test methods and procedures from 40 CFR Parts 60 and 61 shall be used for compliance testing:
 - a. Method l for selection of sample site and sample traverses
 - b. Method 2 for determining stack gas flow rate when converting concentrations to or from mass emission limits.
 - c. Method 3 for gas analysis when needed for calculation of molecular weight or percent CO_2 .
 - d. Method 4 for determining moisture content when converting stack velocity to dry volumetric flow rate for use in converting concentrations in dry gases to or from mass emission limits.

- e. Method 5 for concentration of particulate matter and associated moisture content. One sample shall constitute one test run.
- f. Method 9 for visible determination of the opacity of emissions.
- g. Method 6 for concentration of SO₂. Two samples, taken at approximately 30 minute intervals, shall constitute one test run.
- h. Method 7 for concentration of nitrogen oxides. Four samples, taken at approximately 15 minute intervals, shall constitute one test run.
- i. Method 8 for determination of sulfuric acid mist concentration and associated moisture content. One sample shall constitute one test run.
- j. Method 10 (continuous) for determination of CO concentrations. One sample constitutes one test run.
- k. Method 12 for determination of lead concentration and associated moisture content. One sample constitutes one test run.
- 1. Method 25 for determination of volatile organic compounds (VOC) concentration. One sample shall constitute one test run.
- m. Method 13A or 13B for determination of fluoride concentrations and associated moisture content. One sample shall constitute one test run.
- n. Method 101A for determination of mercury emission rate and associated moisture content. One sample shall constitute one test run.
- o. Method 104 for determination of beryllium emission rate and associated moisture content. One sample shall constitute one test run.
- (3) The stack tests shall be performed at +10% of the heat input rate of 150 million Btu per hour per boiler; however, compliance with the particulate matter emission limit shall be at design capacity.

- 2. The height of the boiler exhaust stack shall be 220 feet above ground level at the base of the stack.
- 3. The incinerator boilers shall not be loaded in excess of their rated capacity of 36,666 pounds per hour each.
- 4. The incinerator boilers shall have a metal name plate affixed in a conspicuous place on the shell showing manufacturer, model number, type waste, rated capacity and certification number.
- 5. The permittee must submit to EPA and DER within fifteen (15) days after it becomes available to the County, copies of technical data pertaining to the incinerator boiler design, to the electrostatic precipitator design, and to the fuel mix that can be used to evaluate compliance of the facility with the preceeding emission limitations.
- 6. Grease, scum, grit screenings or sewage sludge shall not be charged into the solid waste to energy facility boilers.
- 7. Electrostatic Precipitator

The electrostatic precipitator shall be designed and constructed to limit particulate emissions to no more than 0.021 grains per dscf corrected to 12% CO₂.

8. Stack Monitoring Program

The permittee shall install and operate continuous monitoring devices for stack oxygen and opacity. The monitoring devices shall meet the applicable requirements of Rule 17-2.710, FAC, 40 CFR Part 60, Subparts A and D, Sections 60.13 and 60.45 respectively, except that emission rates shall be calculated in units consistent with emission limits in this permit. The conversion procedure shall be approved by EPA.

9. Reporting

- a. A copy of the results of the stack tests shall be submitted within forty-five days of testing to the DER Southwest Florida District Office, the Hillsborough County Environmental Protection Commission (HCEPC) and EPA Region IV.
- b. Stack monitoring shall be reported to HCEPC, the DER Southwest District Office and EPA Region IV on a quarterly basis in accordance with Section 17-2.710, FAC, and 40 CFR, Part 60, Subsection 60.7.

10. Fuel

The Resource Recovery Facility shall utilize refuse such as garbage and trash (as defined in Chapter 17-7, FAC) but not sludge from sewage treatment plants as its fuel. Use of alternate fuels would necessitate application for a modification to this permit.

- 11. Addresses for submitting reports are:
 - a. EPA Region IV

Chief, Air Compliance Branch U.S. Environmental Protection Agency 345 Courtland St. Atlanta, GA 30365

b. DER

Chief, Compliance and Ambient Monitoring
Bureau of Air Quality Management
Florida Department of Environmental
Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32301

c. Southwest District Office of DER

District Manager
Department of Environmental Regulation
7601 Highway 301 N.
Tampa, FL 33610

d. HCEPC

Chief, Air Group
Hillsborough County Environmental
Protection Commission
1900 9th Ave.
Tampa, FL 33605

12. The facility shall provide space for the future installation, if necessary, of a wet or dry flue gas scrubber.

PART II

General Conditions

- The permittee shall comply with the notification and record-keeping requirements codified at 40 CFR Part 60, Subpart A, ¶ 60.7.
- 2. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of two (2) years from the date of recording.
- 3. If, for any reason, the permittee does not comply with or will not be able to comply with the emission limitations specified in this permit, the permittee shall provide EPA with the following information in writing within five (5) days of such conditions:
 - (a) description of noncomplying emission(s),
 - (b) cause of noncompliance,
 - (c) anticipated time the noncompliance is expected to continue or, if corrected, the duration of the period of noncompliance,
 - (d) steps taken by the permittee to reduce and eliminate the noncomplying emission, and
 - (e) steps taken by the permittee to prevent recurrence of the noncomplying emission.

Failure to provide the above information when appropriate shall constitute a violation of the terms and conditions of this permit. Submittal of the aforementioned information does not constitute a waiver of the emission limitations contained within this permit.

4. Any proposed change in the information submitted in the application regarding facility emissions or changes in the quantity or quality of materials processed that would result in new or increased emissions or ambient air quality impact must be reported to EPA. If appropriate, modifications to the permit may then be made by EPA to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause violation of the emission limitations specified herein. Any construction or operation of the source in material variance with the application shall be considered a violation of this permit.

- 5. In the event of any change in control or ownership of the source described in the permit, the permittee shall notify the succeeding owner of the existence of this permit and EPA of the change in control of ownership within 30 days.
- 6. The permittee shall allow representatives of the state and local environmental control agency or representatives of the EPA upon the presentation of credentials:
 - (a) to enter upon the permittee's premises, or other premises under the control of the permittee, where an air pollutant source is located or in which any records are required to be kept under the terms and conditions of the permit;
 - (b) to have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit, or the Clean Air Act;
 - (c) to inspect at reasonable times any monitoring equipment or monitoring method required in this permit;
 - (d) to sample at reasonable times any emissions of pollutants; and
 - (e) to perform at reasonable times an operation and maintenance inspection of the permitted source.
- 7. The conditions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.

- p.2-51 Solid Waste Disposal. Figure 2.14 shows the location of existing and proposed solid waste management facilities within the County. Currently, all of the solid waste generated in Hillsborough County, including that generated by the three cities, is disposed of at the County's Hillsborough Heights landfill. The monthly solid waste quantities received at the Hillsborough Heights Sanitary Landfill from May 1981 to April 1983 are shown in Table 2.21. Approximately 2,000 tons per day (six days per week) of solid waste are disposed of at this site, of which about 750 tons per day (six days per week) is delivered by the City of Tampa.
- p.3-5 The Board of County Commissioners has officially stated that the County will own the project. The contractor will provide a full-service arrangement, including design, construction, acceptance testing, and 20 years of continuous operation, for a "mass-burn" type resource recovery facility with a continuous design rated capacity of 1,200 tons per day using three combustion/steam generation units each with a continuous design rated capacity of 400 tons per day. Additionally, the layout of the project will allow the addition of a fourth combustion/steam generation unit. Initial project construction will include a tipping area and refuse storage pit sized to handle 1,600 tons per day (continuous design rated capacity) and the stack shall have four (4) flues.
- p.3-6 Since the proposed facility will utilize mass-burn technology, there will be no preprocessing of wastes at the facility prior to combustion (except for some limited size reduction of oversized items.) A schematic diagram of a typical resource recovery facility is presented in Figure 3.1. MSW will be truck-delivered to the facility and ash residue removed by the same mode of transport. Under a 1600 tpd configuration, four 400 tpd units would be used in the facility.
- As noted above, while the proposed facility will have a maximum design rated capacity of 1600 tpd, its initial design rated capacity will be about 1200 tpd (comprised of three 400 tpd units). Each boiler unit operates independently from the others. It will, therefore, be possible to routinely shut down one unit for periods of maintenance and inspection.
- p.3-14 The pit shall be sized for minimum storage capacity of three days of solid waste; i.e. 4,800 tons of solid at a density of 450 pounds per cubic yard.

As noted previously, the proposed energy recovery facility is a new facility to be located in Hillsborough County. At ultimate size, the facility is planned would contain four boilers each with a rated capacity of 400 tpd of MSW for a total of 1600 tod.

- p.13 The contractor will provide a full-service arrangement, including design, construction, acceptance testing, and 20 years of continuous operation, for a "mass-burn" type resource recovery facility with a continuous design rated capacity of 1,200 tons per day using three combustion/steam generation units each with a continuous design rated capacity of 400 tons per day. Additionally, the layout of the project will unit. Initial projection construction shall include a tipping area and refuse storage pit sized to handle 1,600 tons per day (continuous design rated capacity) and the stack shall have four (4) flues.
- p.14 Once the site is certified by the state, no other state permits will be required for the project. Although the rate continuous design capacity of the project will be 1,200 tons per day (generating about 29 megawatts), site certification is being sought for an ultimate continuous design rated capacity of 1,600 tons per day (generated about 39 megawatts) since it is anticipated that the County may expand the project in the future.
 - C. Costs of pollution control system(s): (Note: show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)

Electrostatic Precipitators (4) \$4,500.00 total

- p.6-12 Total Weight Incinerated (lbs/hr) <u>133,333</u>. <u>Calculations by GPL 6/13/94 lbs/hr</u>. <u>400 Tons/day/unit</u>. <u>Stack Diamter: flues, each 5'-9' Diam</u>.
- Suppl. Section V: Supplemental Requirements

 <u>Total process input rate at design capacity (i.e. name-plate rating) is 1600 TPS, 4 units each at 400 TPD. Residue amount will be 29.000. lb/hr (dry basis) and is derived as follows:</u>

Emission estimates are contained in the Prevention of Significant Deterioration (PSD) Permit Application

p.3-3 ...using 1,200 tons per day (tpd) of solid waste as fuel. However, certification for an ultimate site capacity of about 39 megawatts, capable

of processing 1,600 tons of solid waste per day, is being sought in anticipation of future solid waste disposal requirements.

Conceptual schematic diagram of the recovery facility is presented in Figure 3-2. Truck transport will be used to deliver MSW to the facility and to remove ash residue from the facility. <u>Under a 1600 tpd</u> configuration, four 400-tpd units would be used in the facility.

p.3-5 Bottom ash from the furnace and flyash from the precipitator will be mixed prior to removal from the facility. Ash will comprise 10 percent of the volume and 25 percent of the weight of the MSW processed by the facility. The ash will be quenched with water to about 30 percent moisture prior to transport to a landfill.

As noted above, while the proposed facility will have a maximum <u>design</u> rated capacity of 1600 tpd, its initial throughput will be about 1200 tpd (comprised of three 400 tpd units). Each boiler unit operates independently from the others. It would, therefore, be possible to routinely shut down one unit for periods of maintenance and inspection

p.3-9

The resource recovery facility will consist of four boilers each capable of firing 400 tpd of reference waste (see Section 3.3 of Volume I) at its maximum continuous rating (MCR). This firing rate will be adjusted as the waste quality changes, i.e. changes in the higher heating value (HHV). This is because one of the objectives of plant operation is to maintain the heat load to the boiler by maintaining the heat release on the grate. When the HHV is low (higher moister and ash fractions, lower combustibles fraction) more waste will be processed, up to 440 tpd per boiler. Likewise, when the HHV is high, less waste will be processed.

The maximum load condition with a heating value of 4,000 Btu/lb resulted in the highest pollutant impacts and therefore this condition is used throughout the modeling assessment (see Section 7.1). This provides for a conservative analysis as the facility is expected to operate, over the long-term, at its maximum continuous rating (MCR) of 400 TPD of reference solid waste subject to an availability of 85 percent.

p.4-2 <u>Emission Factors for Florida Resource Recovery Facilities</u>
Pounds per ton of MSW

Hillsborough Prop	osed
Particular matter	0.48
Sulfur dioxide	2.5
Nitrogen oxides	3.0

Carbon monoxide	1.8
Hydrocarbons	1.2
Lead	0.048
Mercury	0.0052
Beryllium	13.1 x 10-6
Fluorides	0.06
Sulfuric acid	7.68 x 10-2
Hydrogen chloride	4.0

p.6-1 Best Available Control Technology/Lowest Achievable Emission Rate
Analysis

It is assumed for this analysis that the facility will operate at 100% availability at the maximum firing rate of 110% of the nameplate rating (equal to 1760 TPD)

p.6-2 The stack parameters that were used in the modeling exercise simulated worst-case conditions. That is, recently cleaned boilers operating at maximum load conditions (1760 tpd or 110 percent of the nameplate rating) and firing a waste with a low HHV (4000 BTU/lb).

Although worst-case conditions should be used to calculate maximum short-term pollutant concentrations, annual average conditions would be used to calculate maximum long-term concentrations. However, to minimize the computer time involved with the modeling activities, all impacts, both shore and long-term were predicted based on worst-case stack gas exist conditions. This would therefore over predict the long-term concentrations providing a degree of conservatism. Also, this assumption of worst-case conditions holds true even under conditions of changing waste throughput due to variations in waste quality (i.e. HHV).

Worst-case conditions at maximum load corresponds to firing 1760 tpd solid waste with an HHV of 4,000 BTU/lb and a stack gas exit temperature of 430 deg. F. (ESP Case).

- p.7-3 The resource recovery facility will consist of four boilers each capable of firing 400 tons per day (tpd) of reference solid waste. The boilers will typically to be run above 100% of the maximum continuous rate (MCR) but operations at 110% of the MCR caused the greatest air quality impacts and was, therefore, used throughout the air quality analysis (See Section 3.0).
- p.7-6 Emission Rates for the Proposed Facility

*Emission rates based on a throughput equal to 110% of design capacity.

Changes in Paragraph 2, page 1 of the permit:

For the modification of a 1,200 ton per day resource recovery facility located at the permitted existing municipal solid waste resource recovery facility in Hillsborough County approximately two times east of Tampa on the county's Faulkenburg Road site.

This permit is issued under the provisions of Chapter 403, and 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing (s), plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the modification of a 1,200 ton per day resource recovery facility located at the permitted existing municipal solid waste resource recovery facility in Hillsborough County approximately two miles east of Tampa on the County's Faulkenburg Road site. The UTM coordinates of the plant are 368.2 km E and 3092.7 km N.

- 4 1-10
 - p.2-10 This permit is valid only for the specific processes and operations applied for an indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
 - p.6-10 Nitrogen Oxides: 9.34 gr/dscf-12%, or <u>6.4 lb/ton</u>, whichever is more restrictive.

 The concentration limit is intended to be equivalent to the lb/ton limit. The concentration limits were derived by dividing the lb/ton limits by the calculated volume of flue gas limits by the calculated volume of flue gas produced when one ton of refuse is combusted. If actual process conditions, i.e. dscf per ton of refuse fired, are different than projected by the applicant, DER may, at its discretion, determine compliance based upon the lb/ton limits.
 - p.8-10 The boilers shall not be loaded in excess of their rated capacity of 36,666 pounds per hour each.
 - p.3 Page 8, paragraph 3, Modeling Methodology. It should be noted that the prior modeling for the facility utilized a conservative approach. The stack parameters and emission rates were based on a maximum facility

capacity of 1,760 tons per day and 100% facility availability. As currently constructed, however, the plant will normally handle approximately 1200 tons per day. In addition, it is generally assumed that resource recovery facilities will only be available approximately 85% of the time.

p.2 <u>Under Section IV, captioned 'BACT Determination," OMSH would</u>
propose changing the second sentence of the first paragraph to read as
follows:

The ERF is designed to burn up to 1200 tons per day (TPD) of refuse at a heating value of 4500 BTU's per pound, which amount will increase or decrease, respectively, based upon lower or higher heating values, in each case, resulting in an electrical generating capacity of 29 megawatts.

- p.2 The proposed project will be an energy recovery facility boiler which could be used up to 1200 tons per day (TPD) of refuse as fuel.
- p.3 The applicant is proposing the construction of three 400 TPD mass burn technology incinerators for the processing of up to 1200 TPD of municipal solid waste.

The maximum annual emissions from all three units for all regulated pollutants have been estimated by the applicant. These emission rates, and the PSD significant emission rates, are listed in Table II.1.

The proposed incinerators will each have a charging rate of 400 tons per day,

Table II-1

Proposed Maximum Emission Rate (Ton/Yr) (1)

Particulate Matter	90
Volatile Organic Compounds	44
Sulfur Dioxide	701
Carbon Monoxide	395
Nitrogrn Oxides	657
Lead	4.4
Mercury	1.1
Beryllium	0.003
Fluorides	13
Sulfuric Acid Mist	17

(1) Based on processing 1200 tons per day. MSW for 365 days per year

p.6 The applicant ultimately plans to construct a 1600 ton per day municipal solid waste (MSW) incinerator facility to be located on Faulkenburg Road in Tampa, Florida.

The present plans are to install the 400 tons per day (TPD) incineratorboiler units to process a total of 1200 TPD of MSW and generate 29 megawatts of electrical power.

Each incinerator will have an approximate heat input of 150 million Btu per hour, or 49 megawatts, based upon a MSW calorific content of 4500 Btu per pound. Each incinerator will be scheduled to operate 8760 hours per year and on this basis the tons per year of the various air pollutants emitted as calculated.

Screening analyses were initially run using 26 prescribed meteorological conditions with the stack and emission data of the proposed ERF. These runs determined the worst-case boiler operating condition, identified those pollutants emitted from the ERF with a potential for significant impact, and established receptor locations for the more refined modeling. The results of these analyses indicated that a 110 percent boiler load condition (440 tons per day throughput) yielded the greatest air quality impact with the maximum ground-level concentrations occurring approximately 400 meters from the stack.

Table V-2

Pollutant	
Particulate Matter	0.38
Sulfur Dioxide	3.2.
Carbon Monoxide	1.8
Nitrogen Oxides	3.0
Lead	0.02
Hydrocarbons (non-methane)	0.2
Mercury	0.0052
Beryllium	1.0000131
Fluorides	0.06
Sulfur Acid Mist	0.0768
Hydrogen Chloride	4.0

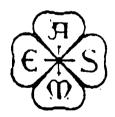
(1) Based on a throughput of 110 percent of design capacity and the operation of four incinerator

Table V-3

(1) Highest second-high concentration assuming four incinerators

The incinerator boilers shall not be loaded in excess of their rated capacity of 36,666 pounds per hour each.

Combustion Fundamentals for Waste Incineration



SPONSORED BY THE ASME RESEARCH COMMITTEE ON INDUSTRIAL AND MUNICIPAL WASTES

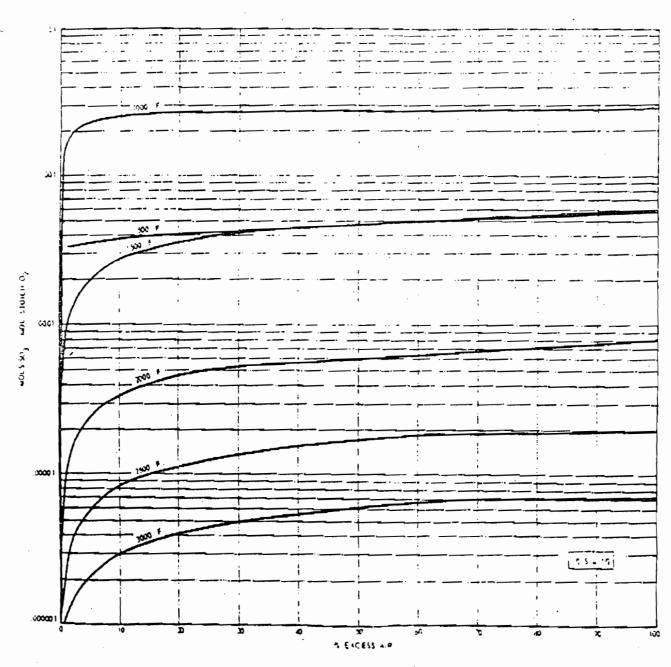


FIG. 8.1

ATTACHMENT "C" P. 4

BEST AVAILABLE COPY

EDITOR'S NOTE

Numbers in parentheses indicate equations. References are noted by numbers in brackets and appear at the end of their respective. Chapter or Table. Numbered Source references (also in brackets) for Appendices G and H appear unity within the text, since they primarily comprise text material.

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ATTACHMENT "C" P. 2

Chapter 8 - Sulfur Oxides

When sulfur is present in a hydrocarbon tuch, it will form exides under equilibrium combustion conditions. These can be either sulfur dioxide (SO₂) or sulfur trioxide (SO₃). The amount that goes to SO₃ in relation to SO₂ will always be small, but it is often important. The SO₃ form readily combines with water vapor to form a high dew point sulfure acid that can be both visible and corrosive. Equilibrium calculations for sulfur containing hydrocarbon fuels were made in the following limits:

Sulfur Content: 0.67 to 5.47% Excess Air: 0 to 100% Temperature: 500 to 3000°F

The results are plotted on Fig. 8.1. Values of SO₃ expressed as mols per mol of stoichiometric oxygen are plotted vs. excess air in percent with values given along lines of constant temperature. The curve is drawn for t percent sulfur fuel content by weight. Values for other percent sulfur contents can be obtained by multiplying the curve by the ratio of the actual sulfur content to one.

Example.

A 2.8 percent sulfur fuel is burned at 2000°F with 25 percent excess air. Determine the ppm of SO₃ and SO₃ if the hydrocarbon part of the fuel is represented by C₄H₅.

From Fig. 8.1, a value of 0.00005 mols SO₃ per stuichtometric mol of O₂ is found at 2000°F and 25 percent excess air. This is for a 1 percent saffar fuel

For a 2.3 percent sulfur fuel, the amount of SO₃ produced would be:

 $(2.8)(0.00005) = 0.00014 \text{ mols SO}_3 \text{ per mol stoic. O}_2$ To convert to ppm.

$$\begin{array}{rcl} 4 \mod C_4 H_5 & = 53 \ \text{lbs} \\ 1-.028 & = 0.972 \ \text{lbs} \ C_4 H_5 \ \text{per} \ 0.028 \ \text{lbs} \ \text{S} \\ (0.028/32) & = 0.000875 \ \text{mols} \ \text{S}/0.972 \ \text{lbs} \ \text{C}_4 H_6 \\ \hline I & \left(\frac{0.000875}{0.972}\right)(53) & = 0.0477 \ \text{mols} \ \text{S}/\text{mol} \ \text{C}_4 H_5 \end{array}$$

So $C_4H_5 + 0.0477 S + 1.25 (5.25 + 0.0477)O_5 \longrightarrow 4 CO_5 + 2.5 H_2O + 0.00014 (5.25 + 0.0477)SO_3 + [0.0477 + (0.00014(5.25 + 0.0477))] SO_1 + 0.25 (5.25 + 0.0477)O_2 + (79.21)(1.25(5.25 + 0.0477))N_2 (Stotchiometry) or:$

 $C_4H_4 + 0.0477 S + 6.622 O_2 \longrightarrow 4 CO_2 + 2.5 H_2O + 0.0007417 SO_3 + 0.04696 SO_2 + 1.324 O_2 + 24.912 N_2$

On a dry basis, the ppm of SO3 is:

ppm SO₃ =
$$\frac{0.0007417}{4 + 0.0007417 + 0.04696 + 1.324 + 24.912} \times 10^6$$

= $\frac{0.0007417(10^6)}{30.2837}$ = 24.5

ppni SO₂ =
$$\frac{0.04696(10^6)}{30.2837}$$
 = 1550.7

ppm
$$SO_X = 24.5 + 1550.7 = 1875$$

Similar calculations can be made the any fuel whose molecular form or ultimate analysis is known. Note that for this particular case. He percent of the sultur was converted to SO₃.

file relationship of mols to bounds per million Bru can also be calculated or approximated.

Example:

Express the results of the previous example as 156'10'' Btu. Since neither a heat of formation nor heating value is available for C_4H_6 , assume 1 mol of stoichiometric O_2 is equal to a fuel heating value of 184,000 Btu.

$$\frac{168 \text{ SO}_3}{10^6 \text{ Bru}} = \frac{0.00014 \text{ mol } \text{SO}_3}{\text{mol } \text{O}_2} \cdot \frac{\text{mol } \text{O}_2 \cdot \text{s}}{\text{184,000 Bru}} \cdot 10^6 \times \frac{80168}{\text{mol } \text{SO}_3}$$

$$= 0.06$$

$$\frac{168 \text{ SO}_2}{10^6 \text{ Bru}} = \frac{1550.7 \text{ ppm } \text{SO}_2}{24.5 \text{ ppm } \text{SO}_3} \cdot \frac{64 \text{ lbs } \text{SO}_2}{86 \text{ lbs } \text{SO}_3} \times 0.06 = 3.014$$



JULY 31, 1987

BEFORE THE GOVERNOR AND CABINET OF THE STATE OF FLORIDA

IN RE: Hillsborough County
Resource Recovery Project
Modification of Certification
Case No. PA 83-19

STIPULATION AND AGREEMENT

WHEREAS, in August, 1984, Hillsborough County, Florida filed an application for certification of an electric generating resource recovery (solid waste to energy) facility; and

WHEREAS, the application for certification was reviewed and recommended for approval by the Florida Department of Environmental Regulation (DER), the Southwest Florida Water Management District (SWFWMD), the Department of Community Affairs (DCA), and the Florida Public Service Commission (PSC), pursuant to the Florida Electrical Power Plant Siting Act (Act), \$403.501-.519, Florida Statutes; and

WHEREAS, the Hillsborough County resource recovery facility
has been built and is ready to commence full time operation; and
WHEREAS, Hillsborough County needs to modify two conditions
of certification; and

WHEREAS, the DER, SWFWMD, DCA, and PSC are willing to assist Hillsborough County in this regard; and

WHEREAS, the Act provides in Section 403.516(2), Florida

Statutes, that the conditions of certification may be modified by
mutual written agreement of the parties to the certification
proceeding, subject to the approval of the Governor and Cabinet,
sitting as the Siting Board;

NOW, THEREFORE, the DER, SWFWMD, DCA, PSC, and Hillsborough County hereby stipulate and agree that the conditions of certification for the Hillsborough County resource recovery facility should be modified in the manner described in paragraphs



1 and 2 below. The <u>underlined</u> words should be added to the conditions of certification; the stricken words should be deleted.

- 1. Condition II.A.l.a.(3) shall be modified to read as follows:
 - (3) Nitrogen Oxides: 3 lb/ton 6.4 <u>lb/ton</u>.
- 2. Condition II.A.l.a.(8) shall be modified to read as follows:
 - (8) Visible emissions: opacity from each boiler shall not be greater than fifteen percent (15%) except that visible emissions of no more than twenty percent (20%) opacity may be allowed for up to 3 minutes in any one hour except during start up or upsets when the provision of 17-2.250, F.A.C. shall apply. Opacity from the ash handling facility baghouse shall not exceed 5%. Opacity compliance shall be demonstrated in accordance with Florida Administrative Code Rule 17-2.700(6)(a)., DER method 9. The compliance test requirements for the ash handling facility shall be waived in accordance with Rule 17-2.700(3)(d), F.A.C.

FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

DATE

BY:

DALE TWACHTMANN, SECRETARY
DAN THOMPSON, GENERAL COUNSEL
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

BY:

DATE

GARY KUHL, EXECUTIVE DIRECTOR DAN FERNANDEZ, GENERAL COUNSEL 2370 Broad Street Brooksville, Florida 33512

DRAFT

DEPARTMENT OF COMMUNITY AFFAIRS

DATE	BY: THOMAS PELHAM, SECRETARY LAWRENCE KEESEY, GENERAL COUNSEL 2572 Executive Center Circle, Eas
	Tallahassee, Florida 32399 FLORIDA PUBLIC SERVICE COMMISSION
DATE	BY: KATIE NICHOLS, CHAIRMAN MICHAEL TWOMEY, ASSISTANT COUNSEL 101 East Gaines Street Tallahassee, Florida 32399-2400
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BY:

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and

JOE HORN MOUNT County Attorney Post Office Box 1110 Tampa, Florida 33601

DSD/vc:Hills-RR4

DATE

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P.O. DRAWER 190

TALLAHASSEE, FLORIDA 32302

BARRY ANDREWS
DER
BUREAU OF AIR QUALITY MANAGEMENT
TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399

Clair Fancy August 10, 1987 Page Two

with the statements in the Preliminary Determination which suggest that the Florida PSD regulations, State Implementation Plan, Power Plant Siting Act, or original Hillsborough County PSD permit were not valid.

- 2. Page 1, paragraph 1. For purposes of completeness, the Preliminary Determination should discuss the PSD permit (PSD-FL-104) that was issued by the United States Environmental Protection Agency (EPA). Specifically, a preliminary determination was prepared and public comments were solicited by DER on April 6, 1986. DER issued a final determination and recommended issuance of the permit on May 21, 1986. A second PSD permit (PSD-FL-104) for the County's facility was issued by EPA on July 7, 1986.
- 3. Page 2, paragraph 1. The Preliminary Determination should state that the resource recovery facility has been built. It is no longer a "proposed" project.
- 4. Page 2, paragraph 2. The Preliminary Determination should be revised to show that "The ERF is will be located . . ." near Faulkenberg Road. Since the site has been the scene of construction activity for the last 2 $\frac{1}{2}$ years, DER should delete the statement that "[t]he site has been recently used as improved pasture for cattle grazing."
- 5. Page 2, paragraph 3. "The proposed site of the Hillsborough County ERF" is in an area designated as nonattainment for ozone.
- Pages 2-3, Section II, Rule Applicability. Hillsborough County has requested modifications to certain permit conditions for the resource recovery facility. In the Preliminary Determination, DER classified the County's request as a major modification to a major source. We are not sure whether EPA will agree with DER's decision. Since we have had problems in the past with EPA's approvals of this project, we would like to ensure that EPA approves the proposed DER procedure and decision in this case. Accordingly, we respectfully request the Department to obtain a letter or other written statement from EPA acknowledging that: (a) DER's characterization of the County's request is appropriate; (b) DER followed the proper procedure when evaluating the County's request; and (c) DER's decision is appropriate. We believe this issue is extremely important because we do not want EPA to subsequently challenge the Department's activities in this case.

Clair Fancy August 10, 1987 Page Three

- 7. Page 8, paragraph 3, Modelling Methodology. It should be noted that the prior modelling for the facility utilized a conservative approach. The stack parameters and emission rates were based on a maximum facility capacity of 1,760 tons per day and 100% facility availability. As currently constructed, however, the plant will normally handle approximately 1200 tons per day. In addition, it is generally assumed that resource recovery facilities will only be available approximately 85% of the time.
- 8. Page 10, paragraph 2. The predicted maximum ambient air quality impact for the proposed emissions of NOx is l ug/m 3 . The preliminary determination incorrectly states that the impact will be ll ug/m 3 .

Draft PSD Permit

- 1. We are concerned about DER's plan to issue a new permit (PSD-FL-121), rather than modify the existing PSD permit (PSD-FL-104). We believe it would be simpler for DER to issue a permit modification that only addresses the specific changes that will be affected by the Department's proposed action. Accordingly, we believe it is unnecessary for the Department to repeat all of the general conditions and specific conditions that have been incorporated into the draft PSD permit (PSD-FL-121). For ease of reference, we have prepared a draft permit and attached it as Exhibit A.
- 2. Page 1, paragraph 3. The draft permit should expressly state that the emissions limits and testing protocol for sulfuric acid mist have been deleted. As written, the draft permit appears to include the emission limits and testing methods for sulfuric acid mist.
- 3. Page 4, pagraph 13. All three of the appropriate spaces should be marked to signify that this permit constitutes a determination of BACT, PSD, and NSPS.
- 4. Page 6, paragraph (4). This requirement should be modified as follows:

Each of the emission limits in conditions (1) and through (3) is to be expressed as a three hour average . . . The concentration standards in conditions (1) (2) and (3) are included as the primary compliance limit . . .

Clair Fancy August 10, 1987 Page Four

- 5. Page 7. A new paragraph l.a.(7) should be added. It should expressly state that the emission limitation for sulfuric acid mist has been deleted.
- 6. Page 8, paragraph 1.c.(2)g. Method 7E should be used to determine compliance for nitrogen oxides rather than Method 7.

Please feel free to call me if you have any questions.

Sincerely,

David S. Dee

cc: Bill Thomas
Daryl Smith
Joe Mount
Emmy Acton
Richard Seelinger
Bob Hauser
Don Elias
Bill Gillen

DSD/vc:Hills-RR

F. Heley

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32399-2400



BOB MARTINEZ GOVERNOR DALE TWACHTMANN SECRETARY

July 14, 1987

Mr. Miguel Flores
Chief, Permit Review and Technical
Support Branch
National Park Service-Air
Post Office Box 25287
Denver, Colorado 80225

Dear Mr. Flores:

RE: Technical Evaluation & Preliminary Determination

PSD-FL-121

Past Permit: PSD-FL-104

Hillsborough County Resource Recovery Facility

Enclosed for your review and comment is the Technical Evaluation & Preliminary Determination and draft permit for the above referenced facility. If you have any comments or questions, please contact Barry Andrews or Tom Rogers by August 14, 1987, at the above address or at (904)488-1344.

Sincerely,

Margaret V. Janes

Bureau of Air Quality

Management

/mi

cc: Russ Galipeau, NPS-SE Regional Office

Glen A. Carowan, Jr., US Fish & Wildlife Service

Chassahowitzka National Wildlife Refuge

enclosure

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

cile Coil

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32399-2400



BOB MARTINEZ GOVERNOR DALE TWACHTMANN SECRETARY

July 14, 1987

Mr. Wayne Aronson Chief Program Support Section U.S. EPA, Region IV 345 Courtland Street, N.E. Atlanta, Georgia 30365

Dear Mr. Aronson:

RE: Technical Evaluation & Preliminary Determination

PSD-FL-121

Past Permit: PSD-FL-104

Hillsborough County Resource Recovery Facility

Enclosed for your review and comment is the Technical Evaluation & Preliminary Determination and draft permit for the above referenced facility. If you have any comments or questions, please contact Barry Andrews or Tom Rogers by August 14, 1987, at the above address or at (904)488-1344.

Sincerely,

Margaret V. Janes

Bureau of Air Quality

Management

/mj

enclosure

dia

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32399-2400



BOB MARTINEZ GOVERNOR DALE TWACHTMANN SECRETARY

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Richard W. Seelinger Executive Vice President Ogden Martin Systems of Hillsborough County, Inc. 40 Lane Road, CN 2615 Fairfield, New Jersey 07007-2615

Dear Mr. Seelinger:

Attached is one copy of the Technical Evaluation, Preliminary Determination, and draft permit to increase the allowable nitrogen oxides, sulfuric acid mist, and particulate emissions from the resource recovery facility in Hillsborough County, Florida.

Please submit, in writing, any comments which you wish to have considered concerning the Department's proposed action to Mr. Bill Thomas of the Bureau of Air Quality Management.

Sincerely,

C. H. Fancy, P.E.

WE Same S

Deputy Chief

Bureau of Air Quality
Management

CHF/BA/s

attachment

cc: Louis Tortora, Jr., P.E.

Bill Thomas Wayne Aronson Miguel Flores Jerry Campbell

Sandra Freedman, Mayor of Tampa Pam Iorio, County Commissioner

P 408 531 208

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL

- (See Reverse)

	Mert to Richard W. S	Seelinger
	Ogden Martin Sys	of Hil
	Street and No.	
	40 Lane Road, CN	2615
	P.O., State and ZIP Code	
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	Special Delivery Fee	
	Restricted Delivery Fee	
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PS Form 3811, July 1983 447-845

BEFORE THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of Application for Permit by:

Hillsborough County Hillsborough County Courthouse 419 Pierce Street Tampa, Florida 33602 DER File No. PSD-FL-121

INTENT TO ISSUE

The Department of Environmental Regulation hereby gives notice of its intent to issue a permit (copy attached) for the proposed project as detailed in the application specified above. The Department is issuing this Intent to Issue for the reasons stated in the attached Technical Evaluation and Preliminary Determination.

Ogden Martin Systems on behalf of Hillsborough County, applied on May 1, 1987, to the Department of Environmental Regulation for a permit to increase the allowable nitrogen oxides, sulfuric acid mist and particulate existing refuse to energy facility located in Hillsborough County, Florida.

The Department has permitting jurisdiction under Chapter 403, Florida Statutes and Florida Administrative Code Rules 17-2 and 17-4. The project is not exempt from permitting procedures. The Department has determined that an air construction permit was needed for the proposed work.

Pursuant to Section 403.815, F.S. and DER Rule 17-103.150, TAC, you (the applicant) are required to publish at your own expense the enclosed Notice of Proposed Agency Action on permit application. The notice must be published one time only in a section of a major local newspaper of general circulation in the county in which the project is located and within thirty (30) days from receipt of this intent. Proof of publication must be provided to the Department within seven days of publication of

the notice. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit.

The Department will issue the permit with the attached conditions unless petition for an administrative proceeding (hearing) is filed pursuant to the provisions of Section 120.57, F.S. A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. Petitions must comply with the requirement of Florida Administrative Code Rules 17-103.155 and 28-5.201 (copies enclosed) and be filed with (received by) the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the permit applicant must be filed within fourteen (14) days of receipt of this intent. Petitions filed by other persons must be filed within fourteen (14) days of publication of the public notice or within fourteen (14) days of receipt of this intent, whichever first occurs. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes, concerning the subject permit application. Petitions which are not filed in accordance with the above provisions will be dismissed.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

C. H. Fancy

Deputy Chief

Bureau of Air Quality

Management

Copies furnished to:

Richard W. Seelinger Louis Tortora, Jr., P.E. Bill Thomas, SW District Wayne Aronson, EPA Miguel Flores, NPS Jerry Campbell, HCEPC

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF INTENT TO ISSUE and all copies were mailed before the close of business on

FILING AND ACKNOWLEDGEMENT FILED, on this date, pursuant to \$120.52(9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Hagart V Janes

1 14187 Date

OGDEN MARTIN SYSTEMS OF HILLSBOROUGH INC.

40 LANE ROAD CN 2615 FAIRFIELD, NEW JERSEY 07007-2615 (201) 882-9000 PIU 8 Narch 1988 West Caldwull, NJ



RECEIVED

MAR 1 1 1988

DER-BAQM

March 7, 1988

Mr. Hamilton Oven
Florida Department of Environmental Regulation (DER)
2600 Blairstone Road
Talahassee, FL 32399-2400

Subject: Hillsborough County Resource Recovery Facility PSD Renewal

As discussed on Thursday, March 3, 1988, please find attached various PSD related documents. Of particular concern is the letter on PSD Permit No. FL-121 which cites a March 31, 1988 expiration date for that permit, approving our reguested NO_{x} and $\mathrm{H}_{2}\mathrm{SO}_{4}$ limit modification. This letter is to request DER's confirmation of our conversation that no additional action is needed on Ogden's part to extend this PSD permit since the Florida Site Certification (as filed August 31, 1984) is effective for the life of the Facility. If any additional follow-up action is needed, please let me know at your earliest convenience as the March 31st date is rapidly approaching.

Please feel free to call me or Joe Treshler at (813) 684-5688 if you have any questions.

Sincerely yours,

OGDEN MARTIN SYSTEMS, INC. 201

Gary K. Crane, Ph.D. Vice President

Environmental Permitting

GKC:sh Attachs.

cc: Clair H. Fancy, Florida DER (all w/attachs.)

J. Glen, OMS Hillsborough

J. Treshler, OMS Hillsborough

D. Strobridge, CDM

D. Smith, Hillsborough

T. Smith, Hillsborough

This is one of those

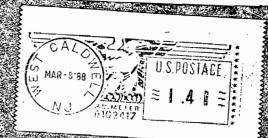
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and federal PSD perait.

They do not need operating permit

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as plang this. Have engines

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and check with Betzy and
draft fetter for my sig

by Friday march 25 th



first class.

OGDEN MARTIN SYSTEMS, INC.

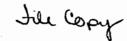
40 LANE ROAD CN 2615 FAIRFIELD, NEW JERSEY 07007-2615

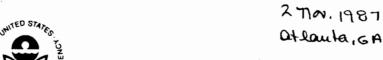


AN OGDEN COMPANY

G. Crane

Clair H. Fancy Florida Department of Environmental Regulation (DER) 2600 Blairstone Road Talahassee, FL 32399-2400





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

2 1987 NOV

345 COURTLAND STREET ATLANTA GEORGIA 30365

4APT/APB-am

DER

NOV 4 1987

Mr. C. H. Fancy, P.E., Chief Bureau of Air Quality Management Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32301-2400

Hillsborough County PSD-FL-120

Dear Mr. Fancy:

This is to acknowledge receipt of your October 14, 1987, PSD final determination for modifications at the above referenced facility. We have reviewed the changes made to the draft permits submitted to EPA on July 14, 1987, and find them to be in accordance to our recommendations of September 11, 1987. We, therefore, concur on your final determination and the permits issued to Hillsborough County.

We will retain copies of the determinations and permits for our records.

Sincerely yours,

Bruce P. Miller, Chief

Air Programs Branch

Air, Pesticides, and Toxics

me P. Miller

Management Division

Copied: CHFIB7

Barry Ordrews

Jam Rogues

116187

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION IV

345 COURTLAND STREET ATLANTA, GEORGIA 30365

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300
ATR-4

Mr. C. H. Fancy, P.E., Chief Bureau of Air Quality Management Twin Towers Office Building 2600 Blair Stone Road Tallahassee, FL 32301-2400

2400

1116

20

CARLTON, FIELDS, WARD, EMMANUEL, SMITH, CUTLER & KENT, P. A. ATTORNEYS AT LAW

ONE HARBOUR PLACE
P. O. BOX 3239

TAMPA, FLORIDA 33601
(813) 223-7000

CNA BUILDING
P. O. BOX 1171

ORLANDO FLORIDA 32802
(305) 849-0300

200 EAST GOVERNMENT ST.
P. O. BOX 12426
PENSACOLA. FLORIDA 32582
(904) 434-0142

FIRST FLORIDA BANK BUILDING
P. O. DRAWER 190
TALLAHASSEE. FLORIDA 32302
(904) 224-1585

FLORIDA NATIONAL BANK TOWER
P. O. BOX 4700

JACKSONVILLE, FLORIDA, 32201



PLEASE REPLY TO:

October 14, 1987

OCT 15 1987

Tallahassee

FEDERAL EXPRESS

Daryl Smith, Director
Hillsborough County Department
of Solid Waste
925 E. Twiggs Street
Tampa, Florida 33601

BY SOLID WASTE DEPARTMENT

RE: PSD Permit for Hillsborough County resource recovery facility

Dear Mr. Smith:

Enclosed is a copy of the PSD permit signed by Secretary Twachtmann of the Department of Environmental Regulation.

Please call if you have any questions.

Sincerely,

Vickie Cantley

Secretary to David Dee

cc: Dan Strobridge (w/attachment) FEDERAL EXPRESS

Bob Hauser (w/attachment)
Joe Treshler (w/attachment)
Bill Gillen (w/attachment)
Joe Mount (w/attachment)
Emmy Acton (w/attachment)
Tom Smith (w/attachment)
Don Elias (w/attachment)
Al Phillips (w/attachment)

/vc:Smith-10

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32399-2400



BOB MARTINEZ GOVERNOR DALE TWACHTMANN SECRETARY

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT

Mr. Richard W. Seelinger
Executive Vice President
Ogden Martin Systems of
Hillsborough County, Inc.
40 Lane Road, CN 2615
Fairfield, New Jersey 07007-2615

October 14, 1987

Enclosed is permit No. PSD-FL-121 for the modification of a 1,200 ton per day resource recovery facility located at the permitted existing municipal solid waste resource recovery facility in Hillsborough County approximately two miles east of Tampa on the county's Faulkenburg Road site in Hillsborough County, Florida. This permit is issued pursuant to Section 403, Florida Statutes.

Any Party to this permit has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this permit is filed with the Clerk of the Department.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

C. H. Fancy, P.E.

Deputy Chief

Bureau of Air Quality Management

Copy furnished to:

Louis Tortora, Jr., P.E. Bill Thomas, SW Dist. Wayne Aronson, EPA Miguel Flores, NPS Jerry Campbell, P.E., EPCHC Sandra Freedman, Mayor of Tampa

Pam Iorio, County Commissioner Protecting Florida and Your Quality of Life COMMISSION
PRIVALE BURANSKY
JAC CHILLIPA
8/L VIA KOMBELL
LYDIA MILLER
JOH NORMAN
JAN KAMINIS PLATT
ED TURANCHIK

MILL STORDUSH COUNTY

FAX (813) 272-5157

TELEPHONE (813) 272-8530

EXECUTIVE DIRECTOR

1900 - STH AVENUE TAMPA, FLORIDA 33606 TELEPHONE (813) 272-5960

WASTE MANAGEMENT DIVISION TELEPHONE (813) 272-5788

ECOSYSTEMS HANAGEMENT DIVISION TELEPHONE (813) 272-7104

June 7, 1994

Virginia Wetherell, Secretary Department of Environmental Protection 2800 Blair Stone Road Tallahassee, Florida 32399

Dear Ms. Wetherell:

In our continuing effort to improve the efficiency and appropriateness of environmental regulation, I am compelled to relate to you a recent incident which exacerbates rather than eliminates any underlying mistrust on the part of all involved:

Last August, my staff identified what appeared to be a significant deviation from the conditions of a PSD permit held by the County's Resource Recovery Facility. After confirming our understanding with DEP (then DER) staff, we issued a warning to the County. As a double check, DEP provided written verification of our interpretation by letter to the County in January. Despite objection, the County prudently altered its operational practices to meet our concerns, changes claimed to be of substantial cost to the public.

Since January, the County has been trying to solicit the assistance of OGC. Assured by DEP staff that we were in concert, EPC staff resented the apparent end-around, but did not object since a DEP permit was involved. A meeting was finally arranged for June, some many months later. At the meeting, and without prior consultation or notice of any problem to us (or apparently to DEP staff), Richard Donalan of OGC announced to us, the County and the facility operator, that the conditions of the permit upon which we had been relying, were meaningless and unenforceable: no limiting condition, no violation, no purpose to the last 8 months...

Not to dispute here the legal conclusions reached. I do object to the manner inwhich this all occurred. My staff did its level best to verify with yours before taking a position adverse to a permittee, but for the protection of our public. Confident of our joint position, my staff was never-the-less publicly humiliated by what appeared to them to be a DEP roll over. Not privy to conversations or arguments made to OGC, we were not afforded notice of any need to further evaluate our position, instead being made to look incompetent, improperly imposing unreasonable demands on permittees. Concurrently, the County and facility operator learned that they could neutralize us by "going over our heads." The County could reasonably argue that, but for the delay in getting OGC's attention on this matter, they would have saved the public (us) the expense of altered practices and legal consultation. And I'm sure that DEP staff will come to resent our efforts to monitor pollution locally, since it appears to put them in the position of having to take a stand, which another arm of their own agency can later overturn without consultation.

Virginia Wetherell, Secretary June 7, 1994 page two

It is no wonder that regulatory pronouncements are mistrusted and challenged, that permittees seek to pit agencies against each other, that influential permittees seek to eliminate local regulatory implementation as it affects them, or that our respective agency staffs are caught in the uncertain middle. Incidents like this are not conductive to cooperative implementation of environmental regulations through delegation or otherwise, and in the end are destructive to all our efforts to protect the public from pollution. We cannot allow such circumstances to occur if we are to develop an effective and streamlined regulatory system at the state and ultimately national level.

Please help us find a solution.

Sincerely,

Roger P. Stewart Executive Director

Ilh.

XC:

Richard Donelan, Esquire V Emmy Acton, Esquire

(resource.ltr)

Emily axlon, HC automey, met with Solid waste because they did not want to modify their pennil, as requested in 1/4 lts Livis to Smith June for lether Sher surale 2/25 1th to Rectand Donalan thanking him for meeting with her and advanted finness' replings to atten 40 to 8 conformant 40 to Starten Perry Robotan 060 to 3/31 Koy 5tmithe Contacted Perry Robotan 060 to Meno HCEPC Sorah Fotopulas Ho Engry actor of enforcement Jory 4/11 Desussia FAG Meelen Schedeled But never occurred become jury Compbell 5/11 Couldn't attent- frag let was veskeduled once before occurs 6/3 Maeting Raduel Donalan, Helsbarong 6/3 Courtey Sw ond HCEPC met. Mentioned To JB prior to meeting. That It would occur attend a couple weeks before the miding. also mentioned the nucley 5/10 to Clair at Great my adaita. Contacted Probabilities voice noil ord colof that fiched descus this usua before any metry.

INTEROFFICE MEMORANDUM

Date: 07-Jun-1994 05:40pm EST From: Preston Lewis TAL

LEWIS P

Dept: Air Resources Management

Tel No: 904/488-1344

SUNCOM:

TO: John Brown (BROWN J) (FANCY_C) TO: Clair Fancy TAL TO: Richard Donelan \mathtt{TAL} DONELAN R) $OUTLAW \overline{D}$) \mathtt{TAL} TO: Douglas Outlaw Hamilton Buck Oven (OVEN H) TO: TAL

Subject: Hillsborough County MWC - revision

I erroneously stated in the last sentence of #3 "100 TPD". It should read "1200 TPD". Sorry.

Jerry Compbell said

- 2/16 Hc EPc got Copy of the Letter

- 3/2 lta from County attorney to OGC

indicating DEP willing to attorney reoper the

INTEROFFICE MEMORANDUM

- Completed Eft

May 194.

Date:

O7-Jun-1994 03:23pm EST

Preston Lewis TAL

LEWIS_P

Air Resources Management

904/488-1344

SUNCOM:

Air Resources Management

TO:

John Brown TAL Clair Fancy TAL TO: TO: Richard Donelan TAL

(FANCY C) (DONELAN_R) (OUTLAW D)

(OVEN H)

(BROWN J)

TO: Douglas Outlaw TAL TO:

Hamilton Buck Oven

Subject: Hillsborough County MWC - Daily Capacity

Can we meet tomorrow (6/8/94) at 4:30 pm in the BAR conference room to discuss the Hillsborough County MWC? We feel that HCEPC should be included via telephone since they have enforcement authority and are apparently discussing taking enforcement against the facility since 1988 for exceeding the 1200 TPD limit charging rate.

Richard,

If you agree, will you fax this to them and get a number that we can call?

Background on Hillsborough County MWC

- EPA issued PSD permit dated 5/21/86 (DER lacked delegation) Site Certification finalized 6/17/86 PSD modification (H2SO4 and SO2 increased) dated 10/14/87
- 2. Site Certification did not specify the daily tons per day (TPD) but did limit the tons per hour (TPH) to 36666 lbs/hr which calculated to be 1320 TPD (based on 24 hours per day) - NO TPY smussian limit
- The PSD permit mentioned 1200 TPD in the description, but did not state a daily limit in the specific conditions. Nor did the specific conditions limit the annual emissions. However, the throughput is limited to 36666 lbs/hr. The air emission are stated as lbs/ton of waste for PM/PM10, SO2, H2SO4, VCC, NOx, CO, lead, fluoride, beryllium. Mercury had a limit of 2200 grams/day. In the Final Determination discussion table II-1 states the TPW and has a footnote that it is "Based on processing 100 tons per day MSW for 365 days".
- A search of the application and supporting documents used to write the permit indicated each of the MWC's would have a capacity of 400 TPD. Originally the application was for four units but it was later reduced to three.
- The PSD modeling was done for the maximum hourly throughput (1320 TPD) and did not violate an Ambient Air Quality Standards.

Would your

.

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1

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- 6. In a 12/17/93 meeting we notified Ogden Martin that we believed that the subject facility was intended to be limited to 1200 Tons per Day (TPD) based on a file search of both information submitted by the applicant and DEP file data.
- 7. On 1/4/94 we notified Hillsborough County (ltr Lewis to Smith) that to operate above 1200 TPD that they would need to apply for a modification of their PSD permit and Site Certification.
- 8. On 6/7/94 Richard Donelan informed us that HCEPC had discussed enforcement action going back to 1988 for exceeding the 1200 TPD. Furthermore, since the Site Certification failed to even mention a daily limit, it would take precedence over the PSD permit (TECO case decision) should this end up in court.

* write letter to Dorgh sorking what gives
morphe a fir in ceptiel 95 to submit
Jille I

CC Roger Stewart

RECEIVED

Board of County Commissioners HILLSBOROUGH COUNTY, FLORIDA

FYI Kay

JUN 9 4 1994

Bureau of, Air Regulation

Office of the County Attorney

Emeline C. Acton, County Attorney
Ronald G. McCord, Chief Assistant
Donald R. Odorn, Chief Assistant
Jennie Granahan Tarr, Chief Assistant
Guilene F. Theodore, Chief Assistant
John Dixon Wall, Chief Assistant
Joseph Egozeue, Administrator



County Center 601 E. Kennedy Blvd. -- 27th Floor

> P.O. Box 1110 Tampa, Florida 33601 (813) 272-5670 Fax (813) 272-5231

REC'D

<u>им</u> МАУ 1 1 1994

MEMORANDUM MAY 1 1 1954

ENV. PROT. COMM. OF H.C.

DATE:

May 10, 1994

TO:

Jerry Campbell, Professional Engineer Environmental Protection Commission

FROM: (Susan M. Allan, Assistant County Attorney

SUBJECT: Hillsborough County Resource Recovery Facility

Please attend a regarding the above-referenced matter on June 3, 1994, at 2:00 p.m., in the County Attorney's Office, 27th Floor. Representatives of the Department of Environmental Protection and Hillsborough County will also be attending. Please confirm your attendance.

SMA/bcb

Copy to:

Emeline C. Acton, County Attorney Sara Fotopulos, EPC Legal Counsel

Daryl H. Smith, Director, Dept. of Solid Waste Tom Smith, Section Mgr., Dept. of Solid Waste Daniel Strobridge, Camp Dresser & McKee Inc.

Best Available Copy

BOARD OF COUNTY COMMISSIONERS HILLSBOROUGH COUNTY, FLORIDA

Office of the County Attorney

Emeline C. Acton, County Attorney
Ronald G. McCord, Chief Assistant
Donald R. Odorn, Chief Assistant
Jennie Granahan Tarr, Chief Assistant
Guilene F. Theodore, Chief Assistant
John Dixon Wall, Chief Assistant
Joseph Egozcue, Administrator



County Center 601 E. Kennedy Blvd. -- 27th Floor

> P.O. Box 1110 Tampa, Florida 33601 (813) 272-5670 Fax (813) 272-5231

NICEIVED

APR 29 TOTAL REC'D

EP.C. OF H.C.

AR PROGRAM

1 1 2000

April 27, 1994

APR 29 1994

ENV. PROT. COMM. OF H.C.

Richard Donelan, Esquire Department of Environmental Protection Twin Towers Office Building 2600 Blair Stone Road Tallahassee, FL 32399-2400

VIA FACSIMILE AND U.S. MAIL

RE: Hillsborough County Resource Recovery Facility

Dear Mr. Donelan:

By letter dated April 21, 1994, Hillsborough County invited you and appropriate Department of Environmental Protection staff to attend a meeting in Tampa regarding Hillsborough County's Resource Recovery Facility. Also invited were representatives of the Hillsborough County Environmental Protection Commission (EPC). Jerry Campbell, with EPC, has requested that this meeting be rescheduled to Thursday, May 19th at 10:00 a.m. Please advise me if your schedule will permit this change.

I look forward to seeing you during the month of May.

Sincerely,

Assistant County Attorney

M. Allan

SMA/bcb

Copy to: Emeline C. Acton, County Attorney

Daryl H. Smith, Dir., Dept. of Solid Waste

Sara Fotopulos, Chief Counsel, EPC Jerry Campbell, Prof. Eng., EPC

letter.rd2/93-757-01

4/19/94ZgH

BOARD OF COUNTY COMMISSIONERS HILLSBOROUGH COUNTY, FLORIDA

Office of the County Attorney

Emeline C. Acton, County Assorting
Ronald G. McCord, Chief Assistant
Donald R. Odom, Chief Assistant
Jennie Granahan Tart, Chief Assistant
Guilene F. Theodore, Chief Assistant
John Dixon Wall, Chief Assistant
Joseph Egozcue, Administrator



County Center 601 E. Kennedy Blvd. -- 27th Floor

> P.O. Box 1110 Tampa, Florida 33601 (813) 272-5670 Fax (813) 272-5231

VIA FACSIMILE and US MAIL

April 15, 1994

Richard Donelan, Esquire
Department of Environmental Protection
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Re: Hillsborough County Resource Recovery Facility

Dear Mr. Donelan,

Approximately two months ago, you met with Emmy Acton and indicated that you would assist in coordinating a meeting between the County, the Florida Department of Environmental Protection (DEP), and the Hillsborough County Environmental Commission (EPC) regarding potential capacity limitation issues at the County's Resource Recovery Facility (RRF). I have tried several times to contact you to make arrangements for the meeting, but have not been able to reach you. By letter dated February 25, 1994 and by Federal Express on March 28, 1994, I sent you background information explaining the issues in detail.

The County has recently received a memorandum from Sara Fotopulos (copy attached), Chief Counsel for the EPC, advising the County that EPC must take enforcement action on this matter very shortly. Furthermore, since this issue arose in August 1993, the County has been operating the RRF at a maximum of 1200 tpd, resulting in current diversions of approximately 1000 tons per week and substantial disposal costs. Some of this waste is being landfilled, using valuable landfill space. The additional disposal costs could reach a total of from \$700,000 to over \$1 million if this matter remains unresolved (see the attached memorandum from Thomas Smith). Therefore, it is imperative that this matter be resolved quickly.

We are available to meet with DEP and EPC, either in Tallahassee or Tampa, on May 6 or May 11. I would like to make final arrangements for this meeting so that this issue may be resolved as soon as possible. Please let me know early next week on your availability and that of DEP staff. I extend my thanks for your assistance in this regard.

sincerely

Susan Allan

Assistant County Attorney

cc: Emeline Acton, County Attorney
Donald Odom, Chief Assistant County Attorney
Daryl Smith, Director, Department of Solid Waste
Thomas Smith, Manager, Department of Solid Waste
Sara Fotopulos, Chief Counsel, EPC

21209

COMMISSION
PHYLLIS BUSANSKY
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ED TURANCHIK

FAX (813) 272-5157



ROGER P. STEWART EXECUTIVE DIRECTOR ADMINISTRATIVE OFFICES AND WATER MANAGEMENT DIVISION 1900 - 9TH AVENUE TAMPA, FLORIDA 33605 TELEPHONE (813) 272-5960

AIR MANAGEMENT DIVISION TELEPHONE (813) 272-5530

WASTE MANAGEMENT DIVISION TELEPHONE (813) 272-5788

ECOSYSTEMS MANAGEMENT DIVISION TELEPHONE (813) 272-7104

MEMORANDUM

DATE:

April 11, 1994

TO:

Emmy Acton, County Attorney

FROM:

Sara M. Fotopulos, Chief Counsel

8MF

SUBJECT:

Hillsborough County Resource Recovery Facility

Pursuant your request, we called Richard Donelan's office to see whether a meeting has been scheduled, or is in the process of being scheduled. Doing so, his secretary indicated that she did not know of such a meeting, but would inquire and let us know. We have not heard anything.

Not achieving resolution, field staff have referred the matter to their enforcement coordinator to take the next step. This would be the issuance of a Notice of Intent to take enforcement - Not a Citation. The enforcement coordinator activities functions on a time line and must take some action fairly soon.

We however, repeat our willingness to meet and discuss this matter. We do not understand a need to wait for DEP action.

Please follow through on your arrangements and advise. I have asked staff to await your efforts at resolution as long as their standard operating procedures permit.

ljh

(resource.2)

RECEIVED

APR 1 2 1994

COUNTY ATTORNEY

BOARD OF COUNTY COMMISSIONERS HILLSBOROUGH COUNTY, FLORIDA

Kay ___

Office of the County Attorney

Emeline C. Acton, County Ausmey
Ronald G. McCord, Chief Assistant
Donald R. Odom, Chief Assistant
Jennie Granahan Tart, Chief Assistant
Guilene F. Theodore, Chief Assistant
John Dixon Wall, Chief Assistant
Joseph Egozcue, Administrator



Frederick B. Karl Legal Center 725 E. Kennedy Boulevard, Suite 300

> P.O. Box 1110 Tampa, Florida 33601 (813) 272-5670 Fax (813) 272-5231

February 25, 1994

Richard Donelan, Esquire
Department of Environmental Protection
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

RE: Hillsborough County Resource Recovery Facility

Dear Mr. Donelan:

I appreciate your meeting with me on February 16, 1994, on such short notice. Your input will be of great value regarding the warning notice received by Hillsborough County for the Resource Recovery Facility.

You indicated that you would be willing to attend a meeting in Tampa in order to resolve the outstanding issues. Representatives from the Florida Department of Environmental Protection (DEP), the Environmental Protection Commission (EPC), and the County will be invited. If you wish for us to assist you in coordinating this meeting, please contact Susan Allan, Assistant County Attorney. She and I would be happy to help in whatever way we can.

The remainder of this letter will set forth the issues and a statement of the County's position. Copies of the relevant documents are attached.

BACKGROUND -

On July 29, 1993, a representative from EPC visited the County's Resource Recovery Facility (RRF) for a regulatory inspection. EPC issued, on August 12, 1993, a warning notice to the Hillsborough

County Department of Solid Waste stating that the RRF was operating in a manner inconsistent with the terms of its permit. EPC contends that the RRF is limited to firing a maximum of 1,200 tons per day (TPD) and that the facility manager could not provide information which demonstrated the charging rate at the time of the EPC inspector's visit.

The County's position is that the maximum charging capacity of the facility is 1,320 TPD and that the County is able to supply information demonstrating the charging rate within a reasonable period.

SUPPORT FOR COUNTY'S POSITION

Specific Condition No.' 3 of PSD-FL-121 (page 8) states, "The incinerator boilers shall not be loaded in excess of their rated capacity of 36,666 pounds per hour each." This equates to 1,320 TPD. The math works out as follows:

36,666 pounds per hour _ 18.33 tons per hour 2,000 pounds per ton

18.33 Tons/Hr. x 3 Boilers x 24 Hr./Day = 1,320 TPD

The permit application supports this interpretation by indicating that the actual tonnage processed is expected to vary from day to day because the heating value of the waste varies. Specifically, the application at Volume III, Section 3.4 (page 3-9) states:

The resource recovery facility will consist of four boilers¹ each capable of firing 400 TPD of reference waste...at its maximum continuous rating (MCR). This firing rate will be adjusted as the waste quality changes, i.e., changes in the higher heating value (HHV). This is because one of the objectives of plant operation is to maintain the heat load to the boiler by maintaining the heat release on the grate. When the HHV is low (higher moisture and ash fractions, lower combustibles

¹The County is operating only three boilers at this time.

fraction) more waste will be processed, up to 440 per boiler². (Emphasis added).

It is noted that throughout the permit application, the Site Certification, and the PSD permit itself, references are made to a "1,200 TPD facility". It is the County's position that this refers only to the nameplate capacity (what the facility is referenced as), but does not indicate a regulatory limit, nor does it reflect what the facility was tested at or is capable of processing.

It is also important to note that if the tons per day are averaged on a yearly basis, the RRF averages 1,200 TPD.

One of the main purposes of the permit is to set emissions limits which may not be exceeded by the RRF. The RRF does not exceed any permit emissions limitations by operating at 1,320 TPD.

Hillsborough County has been operating based on this interpretation of the permit since the facility opened in 1987. The County has submitted regular reports and data to EPC and DEP, including this information and has never received any objections.

Regarding the ability for the County to supply information demonstrating the charging rate of the RRF, General Condition No. 15 of PSD-FL-121 states in pertinent part, "When requested by the Department, the permittee shall within a reasonable period of time furnish any information required by law which is needed to determine compliance with the permit." Currently, there is no instrumentation which exists which can reliably measure the tons of solid waste charged into a boiler on an hourly basis. The County's operator of the RRF looks at data obtained from the truck weigh scales and combines this with data obtained from changes in the refuse pit inventory from week to week in order to calculate the daily processing rates. The County is able to supply this information within a reasonable time. However, if quicker verification is necessary, steam flow may be used to verify the charging rate. This is more fully set out in the proposed DEP letter attached.

²Operating at 440 TPD per boiler equals 1,320 TPD.

PROCEDURAL ISSUES

DEP has suggested that the County go through a modification of the existing PSD permit. The County believes that the regulations for permit modifications are not applicable to this situation, and that this matter should be clarified by a letter from DEP setting forth the interpretation of the permit documents.

DEP cites Section 17-210.300(1), Florida Administrative Code, as requiring a permit modification if there is an increase in actual However, because the RRF has not changed its operations, often at 1,320 TPD, since opening in 1987, there has been no "actual increase in emissions" from what the facility has, in fact, been operating at for the last six years. I do not believe the intent of these regulations is to cause stationary sources to file permit modifications if their processing rate fluctuates each year, thereby causing increases and decreases in emissions. Instead, it appears that the intent of the regulations is to trigger a review when the method of operation of a facility is being modified or when production increases may result in exceeding a permit emission limitation. The emissions limits set forth in the County's permit will not be exceeded if the RRF is operated at 1,320 TPD.

Section 17-210.300, as well as Section 17-212, are specifically applicable to new facilities or modified facilities. The RRF does not fit into any of the categories: it is not being constructed or modified. Furthermore, the County has not changed its method of operating the RRF since commencement of operations in 1987, the County is not proposing any changes in operation, and the method of operation does not vary from the method of operation described in the permit application.

COST IMPACT

In order to avoid any claim of non-cooperation or continuing violation, the County has been operating at 1,200 TPD. The monetary impact to the County is significant. If the County does not burn the solid waste at its RRF, it is diverted to Pasco County, the City of Tampa, or the County landfill. To date, the County has incurred approximately \$192,500 worth of disposal charges resulting directly from these diversions. It is anticipated that the County will incur between \$500,000 to \$800,000

in additional disposal costs on a yearly basis, over and above the County's diversions for other reasons.

RESOLUTION

Attached is a proposed letter for DEP to review which clarifies the interpretation of the permit documents, including the Site Certification and the permit application, which coincides with the way the RRF has actually been operated since 1987. We believe that the permit documents support operation in this manner so that no permit modification is necessary, but simply a letter from DEP outlining the understanding of what the permit means.

I look forward to meeting with you on this issue in the near future. If there is any further information I can supply you prior to the meeting, I will be happy to do so.

Sincerely

Emeline C. Acton County Attorney

ECA/sma/bcb

Attachments

Copy to:

Susan Allan, Assistant County Attorney,

(no attachments)

Donald Odom, Chief Assistant County Attorney,

(no attachments)

Frederick B. Karl, County Administrator

Sara Fotopulos, EPC Legal Counsel

Daryl H. Smith, Director, Solid Waste Dept.,

(no attachments)

Tom Smith, Section Mgr., Solid Waste Dept.,

(no attachments)

Daniel Strobridge, Camp Dresser & McKee Inc.,

(no attachments)

Letter for FDEP Signature

Distribution: Hillsborough County EPC

Hillsborough County Department of Solid Waste

FDEP Southwest District Office

Subject:	Hillsborough	County Soli	d Waste Energy	Recovery	Facility
----------	--------------	-------------	----------------	----------	----------

Dear	
Dai	•

As a result of a compliance inspection conducted by the Hillsborough County Environmental Protection Commission on July 29, 1993, this Department has undertaken a review of the Site Certification 83-19 and PSD-FL-121 permit for the referenced facility. Our review focused upon the permit application in support of the permitted capacity of the facility and specific conditions within these permits for verifying compliance.

Our review indicated that the air quality modeling analysis was in fact performed for a 1600 ton per day (tpd) facility consisting of four units rated at 400 tpd each firing 110% (440 tpd) of their nominal rated capacity. (See Exhibit A, PSD Application, Volume III Air Quality, Application for Power Plant Site Application.) Further, the application describes boiler operations as expected to fire the boilers up to 110% of the nameplate capacity of the facility. (See Section 3.4 Boiler Operations.)

Annual air quality impacts were based upon the facility operating at 1600 tpd, 365 days per year. The results of the analysis indicate that acceptable air quality impacts would occur as a result of operating the facility in the manner described above.

A PSD permit and site certification were granted for the initial nominal facility capacity of 1200 tpd. In recognizing that the facility would be able to charge up to 110% of nominal facility capacity, a specific condition was included in the PSD permit to establish the maximum charging rate per boiler of 36,666 pounds each. The conditions of Site Certification required that stack testing be performed at plus or minus 10% of the heat rate input of 150 million Btu per hour per boiler.

While perhaps the conditions of these permits were not artfully drafted, it is clear on the basis of the information contained in the application for these permits in combination with the specific conditions thereto, that the maximum permitted charging rate is 36,666 pounds of solid waste per hour per boiler or 110% of the nameplate rating of the facility.

To clarify any confusion over the permitted capacity of the facility, PSD-FL-121 and Site Certification 83-19 shall be interpreted to limit the facility to charging no more than 36,666 pounds per unit per hour, 1,320 tons per day and no more than 1,200 tons per

day on an annual average basis. These limitations are consistent with the air quality analyses presented in the application for these permits.

To assist in verifying compliance with these limitations, steam flow shall be used as a surrogate for hourly and daily charging rate limitations. Using steam flow for this purpose is consistent with 40 CFR Part 60.5% subparagraph (h)(6)(i) and subparagraph (j)(1), the New Source Performance Standards pertaining to compliance and performance testing of Municipal Waste Combustors. (See attachments.) The steam flow shall not exceed 98,400 pounds per hour per boiler.

This steam flow determination is based upon the following:

Note that the boiler efficiency of 1,677 Btu input per pound steam is based upon the average efficiency demonstrated by the Hillsborough facility during the 1993 calendar year.

Compliance with the 1,200 tpd annual average charging rate shall be determined on the basis of a 52-week rolling average weight of solid waste received and processed at the facility. The truck weigh scale records shall be used for this purpose.

Please note these clarifications and maintain a copy of this letter in your permit files for this facility.

Sincerely,

Attachments



Florida Department of Environmental Protection

Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Virginia B. Wetherell Secretary

February 25, 1994

Mr. John Power Hillsborough County Resource Recovery Facility 350 Falkenberg Road Tampa, FL 33619

Dear Mr. Power:

The Hillsborough County Resource Recovery Facility (RRF) is on a priority list from EPA's Office of Air Quality Standards, Emissions Standards Division, for obtaining specific operating information. For the Hillsborough County RRF, the following information for each unit, if available, is needed:

- a. ESP Design Inlet Temperature
- b. ESP Inlet Temperature Operating Data
- c. Dioxin/Furan Test Data

Your response must be submitted in writing and is needed by Tuesday, March 1, 1994. The Division of Air Resource Management FAX number is 904/922-6979.

If you have any questions, please call Doug Outlaw or Preston Lewis at 904/488-1344. I have attached a copy of the letter from EPA/Region IV requesting the the Department to provide the ESP and dioxin/furan test data.

Sincerely

C. H. Fancy, P.E

Chief

Bureau of Air Regulation

attachment

cc: Bill Thomas, DEP/Tampa

Scott Davis, EPA/Region IV

Daryl H. Smith, Hillsborough County



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E. ATLANTA, GEORGIA 30365

FACSIMILE CORRESPONDENCE

DATE:

FEB 24 1994

FROM:

Scott Davis Hot Dato Air Enforcement Branch

TO:

Preston Lewis

Air Permitting Branch Florida Department of Environmental Protection

The following list of municipal waste combustor facilities are on a priority list from EPA's Office of Air Quality Standards, Emissions Standards Division, for obtaining specific operating information. For these sources, the following data is desired:

- -ESP Design Inlet Temperature
- -ESP Inlet Temperature Operating Data
- -Dioxin/Furan Test Data

As a minimum, the information on ESP Inlet Temperatures (both Design and Operating Data) <u>must</u> be submitted in writing to EPA Region IV from these sources:

- 1. Hillsborough County Resource Recovery Facility (3 units)
- 2. Pinellas County Resource Recovery Facility (3 units)
- 3. Tampa municipal waste combustor (4 units)
- 4. Bay County Waste to Energy (2 units)

Further information will be relayed to you by telephone, and your questions and comments can be discussed at that time. Thank you for your assistance in this matter.

DETIGNAL FORM 90 (7.96)	
FAX TRANSMIT	TAL . 0/106347 > /
freston Lewis	Scott Davis
FLOR (DA DEP	404-347-5014
904-922-6979 1000-7500-101-910-9108 5095-101	CENERAL SERVICES ADMINISTRATION
RSN 7540-01-317-7368 5099-701	• • • • • • • • • • • • • • • • • • • •

Hillsborgh Courty RRF 9/30/93 For Jules 83

Represently. Telephone Nome frestor hours FDEP-AIR (904) 488-1344 JOHN BROWN FDEP-BAR 904 488 1344 JERRY CAMPBELL EPC HILLS. CTY 513-272-5538 DEP-Siting Buck Oven (904) 487-0472 Joe Tresilier 813-684-5688 agdien Meent u THOMAS G. SMITH (813) 744-5680 Hillsborough Courses Owryl Smith Camp Siesser + McKee (813) 744-5680 Dan Stradridge (813) 521-5833 Oden Martin John Vaver (813) 684-5688 CEDEN (201) 882.7288 Rodmond R Tucci Steve Bass VEDEN 813-856-2917 J. P. Berbudge 813-184-5688 Oregelen

HILLSBOROUGH COUNTY

Florida

Office of the County Administrator Frederick B. Karl

BOARD OF COUNTY COMMISSIONERS
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SEP 2 9 1993

Senior County Administrator
Patricia-Bean

Assistant County Administrators
Edwin Hunzeker
Creen Ichnison (Interim Appointment)
Immie Keel
Robert Taylor (Interim Appointment)

September 27, 1993

Mr. Hamilton S. Oven, P.E., Administrator Florida Department of Environmental Protection 3900 Commonwealth Boulevard Tallahassee, Florida 32399-3000

Subject: Hillsborough County Solid Waste Energy Recovery Facility

Permit No. PSD-FL-121 and Site Certification No. 83-19: Request to Change Units Expressing Facility Capacity From

Pounds of Solid Waste to Pounds of Steam

Dear Mr. Oven:

As you are aware, Hillsborough County, Florida, Department of Solid Waste received a Warning Notice (see Attachment), dated August 12, 1993, from the Hillsborough County Environmental Protection Commission (EPC) alleging violation of the Hillsborough County Solid Waste Energy Recovery Facility's operating permit, and referencing Specific Condition No. 3 and General Condition 15. These permit conditions relate to respectively: boiler capacity, expressed in pounds per hour solid waste loading; and providing information within a reasonable period of time to demonstrate compliance.

While we understand that there may be a jurisdictional issue regarding regulatory authority, we do not wish to be a party to any dispute. We do want to resolve the issue of reasonably demonstrating to the EPC an hour-to-hour boiler loading capacity.

Precisely measuring the quantity of solid waste charged into a boiler over a short period (one hour) is generally beyond the capability of commercially available weighing or other measuring equipment. However, an industry and U.S. EPA accepted surrogate for measuring boiler capacity utilization is steam flow. Steam flow is an operating parameter which is continuously monitored at the Facility. Steam flow indicates boiler capacity utilization and can be correlated to refuse through-put.

Mr. Hamilton S. Oven September 27, 1993 Page Two

To avoid future confusion and misunderstandings, we respectfully request an administrative change to Specific Condition No. 3 of Hillsborough County's PSD-FL-121 permit. The new condition would read: "Each boiler shall not be operated in excess of a steamload of 103,763 pounds steam per hour". The same change is also requested for Hillsborough County's Site Certification No. 83-19, Condition 11.A.1.c.

The following details are provided in support of the requested steam flow designation. The current permit allows the County to charge up to 36,666 lbs (18.33 tons) of solid waste per hour per unit as you confirmed in your letter of August 30, 1993. The design steam flow at the maximum continuous rate (MCR) is 94,333 lbs per hour per unit or 5,658.8 lbs steam per ton of solid waste charged.

94,333 lbs steam/hour divided by 16.67 tons solid waste/hour equals 5,658.8 lbs/steam/ton solid waste

Therefore, maximum steam flow per hour per unit should not exceed 103,726 lbs per hour.

18.33 tons solid waste/hour multiplied by 5,658.8 lbs steam/ton solid waste equals 103,725.8 lbs steam/hour.

We believe this administrative change will allow all parties involved to efficiently administer and demonstrate compliance with the Facility's permit conditions related to capacity and solid waste through-put.

Thank you for your consideration. Should you have any questions in this regard, do not hesitate to contact me at (813) 744-5680.

Sincerely,

Daryl H. Smith, Director Department of Solid Waste Hillsborough County, Florida

DHS/ts

Attachment

xc: Clair Fancy, FDEP
Dan Strobridge, CDM
Joseph Treshler, OMSH

BEST AVAILABLE COPY

ATTACHMENT #1

Nº 14697

Roger P. Stewart Executive Director 272-5960

Date Issued: 8/12/93 S 18 T 29 R 20

ENVIRONMENTAL PROTECTION COMMISSION OF HILLSBOROUGH COUNTY

Responsible	Party (Company/Posson) Mr. Daryl Smith / Dir	
Mailing Addre		
	Tampa, FL 33601 Phone:	
Location of a	lleged violation: Faulkenburg Road, Tampa	<u> </u>
Date and time	of alloged violation: 7/29/93, 9:30 a.m.	
Chapter 8(Ai	here alleged may not include possible concurrent violations of other avironmental Protection Commission. Facts bolloved to constitute	Sition No. 15 rapplicable environmental laws: local, state or federal including of alleged violations.
. ;	to demonstrate compliance with process a ling 1200 TPD process rate.	sate (Specific Condition No. 3).
may have occurate of Hillsbor to a not constituted, to a continued, the continued of the co	Notice, the responsible party is informed that Commission staffined. If substantiated, appropriate administrative or legal action will be county and the Rules of the Environmental Protection Committing a violation as alleged, you are amounged to immediate ecoperative resolution and correction may evoid enforcement act when the protection subsequent to this Notice may be considered by the and until this matter is resolved you:	locaur to assure compliance with the Environmental Protection nission of Hillsborough County. If you believe that the sbova by bontact the investigator named below. If the violation is ion in this matter.
Седве	causing the above violation. This matter	may be referred to our enforcement
section	n. Submit any documents that will support	claim of compliance.
	Sterlin Woodard	Received by: CERTIFIED NAIL # P 282 479 167
ברט רסוחו ו	40. WN 5/92	



Governor

Florida Department of Environmental Protection



Marjory Stoneman Douglas 3900 Commonwealth Boulevard Tallahassee, Florida 32399-3000

Virginia B. Wetherell Secretary

August 30, 1993

Mr. Joseph R. Treshler, Vice President Ogden Martin Systems, Inc. Post Office Box 709 Brandon, Florida 33509-0709

1

Re: Hillsborough County Solid Waste Energy Recovery Facility PA 83-19, PSD-FL-121

Dear Mr. Treshler:

The Department of Environmental Regulation has reviewed your letter of August 19, 1993. The Hillsborough County Solid Waste Energy Recovery Facility was certified by the Power Plant Siting Board on December 18, 1984. The certification, subject to the conditions set forth therein, constitute the sole license of the state as to the approval of the site and the construction and operation of the proposed electrical power plant (Section 403.511, Florida Statutes). Condition of Certification II.A.1.c. limits each boiler to a loading rate of 36,666 pounds per hour. The PSD permit PSD-FL-121 contains the same limitation.

I conclude that the Hillsborough County Warning Notice dated 8/12/93 is not in accordance with the Conditions of Certification and is therefore in error. Since the facility was certified pursuant to the Florida Electrical Power Plant Siting Act, Hillsborough County lacks the authority to take enforcement action without express delegation from the Department.

If you have any questions concerning this matter you may wish to contact Mr. Richard Donelan, Assistant General Counsel, Department of Environmental Protection, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.

Sincerely,

Hamilton S. Oven, P.E. Administrator, Siting Coordination Office

Hamilton S. Over

cc: Richard Donelan
Clair Fancy
Bill Thomas
Jerry Campbell
David Dee

DIANNE SPINGLER

RECEIVED

SEP 1 1993

Division of Air Resources Management



Florida Department of Environmental Protection

Twin Towers Office Building
2600 Blair Stone Road
Governor Tallahassee, Florida 32399-2400

Virginia B. Wetherell Secretary

January 4, 1993

Mr. Daryl H. Smith
Director
Hillsborough County Solid Waste
Department
Post Office Box 1110
Tampa, Florida 33601

RE: Hillsborough County Solid Waste Energy Recovery Facility, Permit No. PSD-FL-121, and Site Certification No. 83-19, Facility Daily Tonnage Increase

Dear Mr. Smith:

An increase in the maximum permitted through-put rate above 1200 tons per day, as discussed in the meeting on December 17, 1993, with the Department's Permitting and Standards Section, Bureau of Air Regulation and John Powers of Odgen Martin Systems, Inc., will require modification of Permit No. PSD-FL-121 in accordance with the requirements of 17-210.300(1), F.A.C., if the actual emissions increase. Any change in the method of operation of a stationary source or facility which increases the actual emissions of any air pollutant regulated under Rule 17-210, 17-212, 17-252, 17-272, 17-273, 17-275, 17-296 or 17-297, F.A.C., including any not previously emitted is a modification of the permit.

If the application does not result in a significant net emissions increase (as set forth in Rule 17-212.400(2)(e)2., F.A.C.), it would not be subject to the new source review requirements of Rule 17-212.400 - Prevention of Significant Deterioration, F.A.C. An increase in production rate of an existing facility, if that increase can be accomplished without an increase in capital expenditure on that facility, may also not be subject to 40 CFR 60, Subpart Ea - Standards of Performance for Municipal Waste Combustors, in accordance with 40 CFR 60.14(e). Therefore, the permit would be amended.

The site certification will not require revision if the facility is still in compliance with the rated capacity of each combustor unit and the emissions limits in the site certification are not exceeded. The most stringent emissions capacity rate in the site certification or the PSD permit will limit the maximum through-put rate at the facility.

Printed on recycled paper.

Mr. Daryl H. Smith January 4, 1994 Page Two

The applicant should submit a completed request for modification of the facility using the air permit application forms. The request for modification should include the basis for all emissions calculations. The applicant also should propose specific conditions for inclusion in the permit modification to verify compliance with the 1-hour and 24-hour firing rates.

If you have any questions regarding preparation of the request for modification, please contact Doug Outlaw or Preston Lewis at (904) 488-1344.

Sincerely,

G. Preston Lewis, P.E. Division of Air Resources Management

cc: Clair Fancy, DEP
John Brown, DEP
John Power, Odgen Martin
Joe Threshler, Ogden Martin
Tom Smith, HCEPC
Hamilton Oven, DEP

GPL/DO/bb .

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32399-2400



BOS MARTINEZ GOVERNOR DALE TWACHTMANN SECRETARY

March 25, 1988

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Gary K. Crane Ogden Martin Systems 40 Lane Road, CN 2615 Fairfield, New Jersey 07007-2615

Dear Mr. Crane:

Re: Hillsborough County Resource Recovery Facility PSD Permit, PSD-FL-121

The Department has received your letter dated March 7, 1988, concerning the expiration date of the above referenced permit and agrees with your comments.

No additional action is needed on your part to extend the PSD permit which cites March 31, 1988, as the expiration date. The Florida Site Certification, filed August 31, 1984, is effective for the life of the project as described therein.

If you have any questions please call Pradeep Raval (permitting) or Barry Andrews (BACT) at (904)488-1344 or write to me at the above address.

Sincerely,

C. H. Fancy, P.E.

Deputy Chief

Bureau of Air Quality

Management

CHF/PR/s

cc: H. Oven, DER

B. Pittman, Esq.

P 274 010 449

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED NOT FOR INTERNATIONAL MAIL (See Reverse)

SMr. Gary K. Crane
Ogden Martin Systems
Strollard No Road, CN 2615

PO. State and ZIP Code
Fairfield, NJ 07007-2615

Postage S
Certified Fee
Special Delivery Fee
Return Receipt showing to whom and Date Delivery
Return Receipt showing to whom. Date. and Address of Delivery
TOTAL Postage and Fees
SMr. Crane
Ogden Martin Systems
Strollard No Road, CN 2615

PO. State and ZIP Code
Fairfield, NJ 07007-2615

S
Return Receipt showing to whom. Date. and Address of Delivery
TOTAL Postage and Fees
SMr. Crane
Ogden Martin Systems
Strollard No Road, CN 2615

Postmark or Date Mailed: 02-25-88

Hillsborough County

PSD-FL-121

PS Form

Put you's address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested. 1. Define to whom delivered, deta, and addresses seddress. 2. Restricted Delivery. 3. Article Addressed to: Mr. Gary K. Crane Ogden Martin Systems 40 Lane Road, CN 2615 Fairfield, NJ.07007-2615 5. Signature - Addressee 4. Article Number P 274 010 449 Conductor of addressee or agent and Deft Delivery. Aliways obtain signature of addressee or agent and Deft Delivery. 8. Addressee's Address (ONLY if requested and fee paid) 6. Signature - Agent X 7. Date of Delivery. 3. Atticle Number P 274 010 449 Conductor of addressee or agent and Deft Delivery. 8. Addressee's Address (ONLY if requested and fee paid) S Form 381/4, Feb. 1986	C CE U.S.	manufacture of the second
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STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL BEGULATION RECEIVED

MAR 1 1 1988

DER - BAOM

BOB MARTINEZ GOVERNOR

DALE TWACHTMANN SECRETARY

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32399-2400

> PERMITTEE: Hillsborough County Hillsborough County Courthouse 419 Pierce Street Tampa, Florida 33602

Permit Number: PSD-FL-121

Expiration Date: March 31, 1988

County: Hillsborough

27° 57' 00" N Latitude/Longitude:

82° 40' 22" W

Project: Hillsborough County Resource

Recovery Modification

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2 and 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the modification of a 1,200 ton per day resource recovery facility to be located at the permitted existing municipal solid waste resource recovery facility in Hillsborough County approximately two miles east of Tampa on the county's Faulkenburg Road site. The UTM coordinates of the proposed plant are 368.2 km E and 3092.7 km N.

This permit solely pertains to the pollutant increases (nitrogen oxides, sulfuric acid mist, and particulates) which result from this modification. Only specific conditions 1.a.(3), 1.b., and 1.c.(1) have been modified and/or added to reflect the changes requested in this modification. For clarity purposes, the remaining specific conditions which pertain to the pollutants addressed in this modification have been repeated as they appeared in the original PSD permit (PSD-FL-104). The other pollutants emitted from this facility are addressed in the original PSD permit.

Construction shall be in accordance with the attached permit application, plan, documents, and drawings except as noted in the Specific Conditions.

Attachments:

- 1. May 1, 1987, letter by Richard W. Seelinger.
- June 8, 1987, letter by Bruce P. Miller, EPA Region IV. 2.
- June 12, 1987, letter by J. R. Treshler.

Permit Number: AC PSD-FL-121 Expiration Date: March 31, 1988

GENERAL CONDITIONS:

- 1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
- 2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
- 3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
- 4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
- 5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

Permit Number: PSD-FL-121 Expiration Date: March 31, 1988

GENERAL CONDITIONS:

6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

- 7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
 - Having access to and copying any records that must be kept under the conditions of the permit;
 - b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

- 8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the Department with the following information:
 - a. a description of and cause of non-compliance; and
 - b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

Permit Number: PSD-FL-121 Expiration Date: March 31, 1988

GENERAL CONDITIONS:

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or revocation of this permit.

- 9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the Department, may be used by the Department as evidence in any enforcement case arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.
- 10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
- 11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
- 12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
- 13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 - () Determination of Prevention of Significant Deterioration (PSD)
 - () Compliance with New Source Performance Standards.
- 14. The permittee shall comply with the following monitoring and record keeping requirements:
 - a. Upon request, the permittee shall furnish all records and plans required under Department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

Permit Number: PSD-FL-121
Expiration Date: March 31, 1988

GENERAL CONDITIONS:

- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by Department rule.
- c. Records of monitoring information shall include:
 - the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.
- 15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be submitted or corrected promptly.

SPECIFIC CONDITIONS:

- 1. Emission Limitations
 - a. Stack emissions from each unit shall not exceed the following:
 - (1) Particulate matter: 0.021 grains per dry standard cubic foot corrected to 12% CO2 (gr/dscf-12%) or 7.0 pounds per hour per unit, whichever is more restrictive.

Permit Number: PSD-FL-121 Expiration Date: March 31, 1988

SPECIFIC CONDITIONS:

(2) Visible Emissions: Opacity of stack emissions shall not be greater than 15% opacity except that 20% opacity may be allowed for one six-minute period (average of 24 consecutive observations recorded at 15-second intervals) in any one hour. Excess opacity resulting from startup or shutdown shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess opacity shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by EPA for longer duration.

Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during start-up or shutdown shall be prohibited. Opacity of other emission points at the plant shall not exceed 5%.

- (3) Nitrogen Oxides: 0.34 gr/dscf-12%, or 6.4 lb/ton, whichever is more restrictive
- Each of the emission limits in conditions (1) (4)through (3) is to be expressed as a 3-hour average. This averaging time, which is applicable to the emission limits for all pollutants, is based on the expected length of time for a particulate compliance test. The concentration standards in conditions (2) and (3) are included as the primary compliance limit to facilitate simpler compliance testing, since the process weight, in tons per hour, is not easily measured. The concentration limit is intended to be equivalent to the lb/ton The concentration limits were derived by dividing the lb/ton limits by the calculated volume of flue gas produced when one ton of refuse is combusted. If actual process conditions, i.e. dscf per ton of refuse fired, are different than projected by the applicant, EPA may, at its discretion, determine compliance based upon the lb/ton limits.
 - (5) The potential for dust generation by ash handling activities will be mitigated by quenching the ash prior to loading in ash transport trucks.

Permit Number: PSD-FL-121 Expiration Date: March 31, 1988

SPECIFIC CONDITIONS:

Additionally, all portions of the proposed facility including the ash handling facility which have the potential for fugitive emissions will be enclosed. Also those areas which have to be open for operational purposes, e.g., tipping floor of the refuse bunker while trunks are entering and leaving, will be under negative air pressure.

- (6) Each of the three units is subject to 40 CFR Part 60, Subpart E, New Source Performance Standards (NSPS), except that where requirements in this permit are more restrictive, the requirements in this permit shall apply.
- b. Ash handling facility emissions shall not exceed 1.63 pounds per hour.
- c. Compliance Tests
 - (1) Compliance tests for particulate matter, and, nitrogen oxides shall be conducted in accordance with 40 CFR 60.8 (a), (b), (d), (e), and (f), except that an annual test will be conducted for particulate matter. Compliance tests for opacity will be conducted simultaneously with compliance tests for particulate matter. The compliance test requirements for the ash handling facility shall be waived in accordance with Rule 17-2.700(3)(d), FAC.

Compliance tests shall be conducted for such time and under such conditions as specified by EPA prior to the compliance test. These conditions will be specified by EPA upon notification of performance tests as required by General Condition 1. The permittee shall make available to EPA such records as may be necessary to determine the conditions of the performance tests.

- (2) The following test methods and procedures from 40 CFR Parts 60 and 61 shall be used for compliance testing:
 - Method 1 for selection of sample site and sample traverses

Permit Number: PSD-FL-121
Expiration Date: March 31, 1988

SPECIFIC CONDITIONS:

- b. Method 2 for determining stack gas flow rate when converting concentrations to or from mass emission limits.
- c. Method 3 for gas analysis when needed for calculation of molecular weight or percent CO2.
- d. Method 4 for determining moisture content when converting stack velocity to dry volumetric flow rate for use in converting concentrations in dry gases to or from mass emission limits.
- e. Method 5 for concentration of particulate matter and associated moisture content. One sample shall constitute one test run.
- f. Method 9 for visible determination of the opacity of emissions.
- g. Method 7 for concentration of nitrogen oxides. Four samples, taken at approximately 15 minute intervals, shall constitute one test run.
- (3) The stack tests shall be performed at +10% of the heat input rate of 150 million Btu per hour per boiler; however, compliance with the particulate matter emission limit shall be at design capacity.
- 2. The height of the boiler exhaust stack shall not be less than 220 feet above ground level at the base of the stack.
- 3. The incinerator boilers shall not be loaded in excess of their rated capacity of 36,666 pounds per hour each.
- 4. The incinerator boilers shall have a metal name plate affixed in a conspicuous place on the shell showing manufacturer, model number, type waste, rated capacity and certification number.
- 5. The permittee must submit to EPA and DER within fifteen (15) days after it becomes available to the County, copies of technical data pertaining to the incinerator boiler design,

Permit Number: PSD-FL-121
Expiration Date: March 31, 1988

SPECIFIC CONDITIONS:

to the electrostatic precipitator design, and to the fuel mix that can be used to evaluate compliance of the facility with the preceeding emission limitations.

- 6. Grease, scum, grit screenings or sewage sludge shall not be charged into the solid waste to energy facility boilers.
- 7. Electrostatic Precipitator

The electrostatic precipitator shall be designed and constructed to limit particulate emissions to no more than 0.021 grains per dscf corrected to 12% CO2.

8. Stack Monitoring Program

The permittee shall install and operate continuous monitoring devices for stack oxygen and opacity. The monitoring devices shall meet the applicable requirements of Rule 17- 2.710, FAC, 40 CFR Part 60, Subparts A and D, Sections 60.13 and 60.45 respectively, except that emission rates shall be calculated in units consistent with emission limits in this permit. The conversion procedure shall be approved by EPA.

9. Reporting

- a. A copy of the results of the stack tests shall be submitted within forty-five days of testing to the DER Southwest Florida District Office, the Hillsborough County Environmental Protection Commission (HCEPC) and EPA Region IV.
- b. Stack monitoring shall be reported to HCEPC, the DER Southwest District Office and EPA Region IV on a quarterly basis in accordance with Section 17-2.710, FAC, and 40 CFR, Part 60, Subsection 60.7.: e

10. Fuel

The Resource Recovery Facility shall utilize refuse such as garbage and trash (as defined in Chapter 17-7, FAC) but not sludge from sewage treatment plants as its fuel. Use of alternate fuels would necessitate application for a modification to this permit.

Permit Number: PSD-FL-121 Expiration Date: March 31, 1988

SPECIFIC CONDITIONS:

Issued thisday of, 19
STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION
Dale Twachtmann, Secretary

State of Florida Department of Environmental Regulation Notice of Proposed Agency Action on Permit Application

The Department of Environmental Regulation gives notice of its intent to issue a permit to Hillsborough County to increase the allowable nitrogen oxides, sulfuric acid mist, and particulate emissions from their existing energy recovery (municipal solid waste incineration) facility. The facility is located in Hillsborough County approximately two miles east of Tampa on the county's Faulkenburg Road site. A determination of best available control technology (BACT) was required.

This application was reviewed under Florida Administrative Code Rule 17-2.500, Prevention of Significant Deterioration. Emissions of nitrogen oxides, sulfuric acid mist, and particulates will increase by 739, 289, and 7 tons per year, respectively. The allowable emissions of the other pollutants are not being increased. The Department has completed a study of the potential ambient air impact due to the increase in emissions. Based on this study, the Department has reasonable assurance that the increase in emissions will not cause or contribute to an exceedance of the ambient air quality standards for these pollutants. No PSD increment analysis is required for this modification.

Persons whose substantial interests are affected by the department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must conform to the requirements of Chapters 17-103 and 28-5, Florida Administrative Code, and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Failure to file a request for hearing within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this preliminary statement. Therefore, persons who may not object to the proposed agency action may wish to intervene in the proceeding. A petition for intervention must be filed pursuant to Model Rule 28-5.207 at least five (5) days before the final hearing and be filed with the hearing officer if one has been assigned at the Division of Administrative Hearings, Department of Administration, 2009 Apalachee Parkway, Tallahassee, Florida 32399-2400. If no hearing officer has been assigned, the petition is to be filed

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with the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Failure to petition to intervene within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes.

The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Dept. of Environmental Regulation Southwest District 7601 Highway 301 North Tampa, Florida 33610

Dept. of Environmental Regulation Bureau of Air Quality Management 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Hillsborough County Environmental Protection Commission 1410 N. 21st Street Tampa, Florida 33605

Any person may send written comments on the proposed action to Mr. Bill Thomas at the Department's Tallahassee address. All comments mailed within 30 days of the publication of this notice will be considered in the Department's final determination.

RULES OF THE ADMINISTRATIVE COMMISSION MODEL RULES OF PROCEDURE CHAPTER 28-5 DECISIONS DETERMINING SUBSTANTIAL INTERESTS

28-5.15 Requests for Formal and Informal Proceedings

- (1) Requests for proceedings shall be made by petition to the agency involved. Each petition shall be printed, typewritten or otherwise duplicated in legible form on white paper of standard legal size. Unless printed, the impression shall be on one side of the paper only and lines shall be double spaced and indented.
- (2) All petitions filed under these rules should contain:
 - (a) The name and address of each agency affected and each agency's file or identification number, if known;
 - (b) The name and address of the petitioner or petitioners;
 - (c) All disputed issues of material fact. If there are none, the petition must so indicate;
 - (d) A concise statement of the ultimate facts alleged, and the rules, regulations and constitutional provisions which entitle the petitioner to relief;
 - (e) A statement summarizing any informal action taken to resolve the issues, and the results of that action:
 - (f) A demand for the relief to which the petitioner deems himself entitled; and
 - (g) Such other information which the petitioner contends is material.

Technical Evaluation and Preliminary Determination

Hillsborough County, Florida

Resource Recovery Facility Modification File No. PSD-FL-121

Florida Department of Environmental Regulation Bureau of Air Quality Management Central Air Permitting

I. INTRODUCTION

Pursuant to Section 403.505, Florida Statutes, Hillsborough County applied to the Florida Department of Environmental Regulation (DER) in August 1984 for certification of a steam electric-generating, solid waste energy recovery facility at a site about two miles east of the town of Tampa on the County's Faulkenburg Road site. After a thorough review by DER, including public hearings, the Florida Power Plant Siting Board issued a site certification to the County. At that time, DER believed that such a site certification constituted a legal prevention of significant deterioration (PSD) permit under Chapter 17-2.500, FAC, of the Florida air pollution regulations which had been approved by the U.S. Environmental Protection Agency (EPA) on December 22, 1983. In the summer of 1985, EPA became aware that the Power Plant Siting Act (PPSA) under which the site certification was issued supercedes all other State laws, including the law under which Florida's air pollution regulations are adopted. Consequently, the Florida PSD regulations are superceded by the PPSA, and legally could not be approved by EPA as part of the State Implementation Plan (SIP) since the PPSA does not comply with the EPA's PSD regulations in several respects. Hillsborough County Energy Recovery Facility (ERF), which was under construction, did not possess a valid PSD permit. remedy for this situation was to issue an Order under Section 167 of the Clean Air Act for Hillsborough County to either cease construction or apply for a Federal PSD permit under 40 CFR 52.21, U.S.C. On December 13, 1985, Hillsborough County applied to DER for a PSD permit. (By that time, DER had been given authority by EPA to conduct the technical and administrative steps of the Federal PSD permitting process.) In conducting the PSD review, EPA decided that, due to the unique circumstances of this permit application, the best available control technology (BACT) analysis would be conducted taking into account the factors affecting BACT at the time the County submitted a complete application for a site certification. That date was August 16, 1984.

On May 1, 1987, Ogden Martin Systems in behalf of Hillsborough County applied to DER to increase the allowable nitrogen oxides (NOx) and sulfuric acid mist emissions at the Hillsborough County ERF. This request for an emissions increase was based on recent testing of similar facilities in the United States indicating that the originally requested limits for these pollutants will be exceeded during normal operation. Subsequently, on June 16, 1987, Ogden Martin Systems on behalf of Hillsborough County submitted an application to operate/construct dust suppression equipment that was added to the final design of the ash handling building to ensure that there would be no visible emissions from this plant area.

The proposed project will be an ERF boiler which could use up to 1200 tons per day (TPD) of refuse as fuel. A proposed boiler expansion could increase the total solid waste processing capacity of the plant to 1600 TPD. The steam from the new boiler will be sent to a turbine generator with a capacity of 29 megawatts (MW) (gross). Hillsborough County has contracted with a full service vendor to design, construct, and operate the plant for 20 years. Generated electricity will be transmitted to the Tampa Electric Company (TECO) for distribution over the TECO transmission system. The generating capacity of the expanded plant should be approximately 39 MW. The primary purpose of the facility is to dispose of solid waste. In addition to electricity, recovered resources could be, steam, ferrous metals, and aluminum. Non-processible waste (including non-combustibles and demolition debris) and unusable residue will be buried at a licensed, off-site sanitary landfill. The sale of electricity, and eventually other processed and recovered resources, will help offset the overall cost of owning and operating the facility.

The ERF will be located on approximately 50.4 acres within the County's existing Faulkenburg Road tract. The site is located approximately 0.6 miles north of State Road 60. It is bordered by Faulkenburg Road on the east, by a TECO 230 KV transmission line corridor on the west, and by the Seaboard System Railroad on the south. The plant site is mostly level grassy land with scattered trees in the northwest portion. The site has been recently used as improved pasture for cattle grazing. topography is fairly level, with elevation ranging from 27 to 45 feet above sea level across the tract. Geology of the site shows an overburden of sand and clay lying over limestone and dolomite which forms the Floridan Aquifer. The overburden forms a subsurface reservoir called the Shallow Aquifer. The proposed facilities will consist of a 29 MW steam electric generating turbine; three 400 tons per day mass-burn solid waste fired boilers; a mechanical draft cooling tower utilizing treated sewage effluent; a 220 foot flue gas stack; and electrostatic precipitators. Provisions are made to allow the addition of another 400 tons per day boiler.

II. Rule Applicability

The proposed site of the Hillsborough County ERF is in an area designated as nonattainment for ozone and particulate matter under 40 CFR 81.310, U.S.C., and attainment for all other criteria pollutants.

New major sources which emit attainment pollutants regulated under the Clean Air Act in amounts greater than certain significance levels are subject to 40 CFR 52.21, U.S.C. The significance levels are specified by the PSD regulations.

The proposed increase, which constitutes a major modification to

a major source, is, therefore, subject to PSD review under 40 CFR 52.21, U.S.C. because the modification will result in a significant net emissions increase of a criteria pollutant. These emission rates, and the PSD significant emission rates, are listed in Table II-1.

Table II-l

	Requested (TPY)	Permitted (TPY)	Increase (TPY)	PSD Significant Rate (TPY)
Nitrogen Oxide Emissions	1,396	657	739	40
Sulfuric Acid Mist Emissions	306	17	289	7
Particulate Emissions	97	90	7	N/A

The proposed source has the potential to emit more than 100 tons per year of one or more regulated pollutants and is, therefore, subject to review under 40 CFR 52.21, U.S.C. PSD review includes, among other requirements, a determination of Best Available Control Technology (BACT) and an air quality impact analysis for each attainment and noncriteria pollutant that would be emitted in a significant amount as listed in Table II-1.

III. Preliminary Determination

As noted in Section I, Table II-1, the proposed modification will result in significant emissions of NOx, and sulfuric acid mist.

The increase in particulate emissions due to the dust suppression equipment added to the ash handling facility result in a total facility emission rate of 97 tons per year. The modification does not result in the facility being major for particulates (annual emissions of particulates exceed 100 tons per year) hence the increase constitutes a minor modification to a minor facility with respect to particulates. The emissions of the other regulated pollutants (volatile organic compounds, sulfur dioxide carbon monoxide, lead, mercury, beryllium, and fluorides) are not being changed by the requested modification. The July 7, 1986, Technical Evaluation and Final Determination for this source (PSD-FL 104) discusses the basis for the standards of the other regulated pollutants.

Initially, NOx and sulfuric acid mist were expected to be emitted at a much lower level than recent testing of similar facilities has indicated. The applicant has informed DER that based on

these recent tests, the orginally permitted emission rates for NOx and sulfuric acid mist will be exceeded during normal operation of the facility.

A BACT determination for NOx and sulfuric acid mist, which is included as part of this review, addresses the information and analysis used to revise the NOx and sulfuric acid mist standards for this facility.

After evaluating the information submitted by the applicant and the emission limitations for similar facilities, DER concluded that the applicant's request to increase NOx emissions to the requested level is consistent with BACT for these facilities. In addition, it was concluded that the sulfuric acid mist emission limit should be deleted from the permit conditions.

It has also been determined that the dust suppression equipment (baghouse) on the ash handling system provides a reasonable level of control and hence is consistent with the requirements for a modification of a minor source with respect to particulates.

The proposed emissions increase of NOx and sulfuric acid mist from the ERF are 739 and 289 tons/year respectively. Since these increases exceed the significant levels for PSD applicability they are subject to the requirements of this rule. In general, these requirements include:

- An analysis of existing air quality
- An Ambient Air Quality Standards (AAQS) analysis.
- An analysis of impacts on soils, vegetation, growth-related air quality impacts; and
- A "Good Engineering Practice" (GEP) Stack Height determination; and
- ° BACT

Based on these required analyses, DER has reasonable assurance that the proposed units at the Hillsborough County ERF, as described in this report and subject to the conditions of approval proposed herein, will employ BACT, will not cause or contribute to a violation of any PSD increment or ambient air quality standard, and will comply with all appplicable air pollution regulations. A discussion of all review components follows.

IV. BACT Determination

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The applicant has constructed a solid waste ERF located approximately two miles east of Tampa on the Hillsborough County Faulkenburg Road site. This ERF is capable of burning up to 1200 tons per day (TPD) of refuse as fuel, resulting in an electrical generating capacity of 29 megawatts.

The facility was issued a PSD permit in July 1986 (PSD FL-104) which limited the emission of NOx and sulfruic acid mist to 0.16 gr/dscf and 0.0040 gr/dscf corrected to 12% CO_2 , respectively.

On May 1, 1987, the applicant submitted a letter requesting modifications to the permitted NOx and sulfuric acid mist limitations in the PSD permit, and the permitted NOx limitation in the Power Plant Siting Certification (PA 83-19). This request to modify the emission limitations for these pollutants was based on test data which has become available to the municipal solid waste combustion industry subsequent to the issuance of the aforesaid permits. Based on this data, the applicant has stated that the Hillsborough County ERF will be unable to meet the permitted levels for NOx and sulfuric acid mist (H₂SO₄ mist) and has requested in increase in these emissions limitations.

For permitting purposes, the applicant has proposed that the NOx limitation be increased from 0.16 gr/dscf at 12 percent $\rm CO_2$ to 0.34 gr/dscf at 12% $\rm CO_2$ for a three (3) hour average. The sulfuric acid mist limitation would be increased from 0.004 gr/dscf at 12 percent $\rm CO_2$, to 0.072 gr/dscf at 12 percent $\rm CO_2$ for a three (3) hour average.

Review Group Members

This determination was based upon comments received from the applicant, the Stationary Source Control Section, and EPA Region IV.

BACT Determined by DER:

Pollutant

Emission Limit

Nitrogen Oxides (NOx) Sulfuric Acid Mist 0.34 gr/dscf @ 12% CO₂ 0.072 gr/dscf @ 12% CO₂

BACT Determination Rationale

A review of the exhibits and data submitted by the applicant indicates that the emission levels originally proposed by the applicant are relatively low in comparison to similar facilities that have recently been tested.

Initially the applicant proposed an NOx emission limitation equivalent to 0.16 gr/dscf corrected to 12% CO2. At the time of this proposal, (August 1984) there were no data available to Ogden or other similar corporations with regard to NOx emission levels being experienced by modern refuse burning facilities using state-of-the-art mass-burn technology. As a consequence, data derived from older facilities then in operation were used as the source of the NOx emission level requested in the application. The older facilities were neither designed nor

operated to achieve the high degree of combustion efficiency as that achieved by this facility and, perhaps predictably, testing has demonstrated that the older data are not compatible with emissions from modern facilities. Subsequent to submission of the present application, several resource recovery facilities around the country using improvements in combustion technology have gone into service. Two of these are Ogden facilities in Tulsa, Oklahoma and Marion County, Oregon. Operation of these facilities has shown that actual NOx levels are equivalent to those now being sought.

The applicant also seeks an adjustment of the emission level for sulfuric acid mist to reflect emissions of this substance from modern refuse burning facilities. The emission level for H2SO4 mist that was originally requested in the application, and later adopted in the permit, was not based upon operating results of facilities using current technology. At the time the application was submitted, no such data were available. In fact, it has only been very recently that H2SO4 mist emissions have been regulated in refuse burning facilities. The basis for the emission level contained in the application was a "theoretical" calculation derived from a formula found in an American Society of Mechanical Engineer's text published in 1974 involving a different type of operating temperatures.

Based upon the experience of resource recovery facilities recently coming into service, the sulfuric acid mist levels originally requested (August 1984) and adopted are also unrealistically low. The emissions of sulfuric acid mist and NOx measured at facilities which are similar to the Hillsborough County ERF are shown below, along with preliminary testing results at the Hillsborough County Facility.

EMISSION TEST DATA AND PERMIT LEVELS FOR NOX AND H2SO4

Pollutant	<u>Tu</u>	lsa	Marion	Wurzburg	Stockholm	Preliminary (⁵) Hillsborough Test Results
	Test ppm @ 12% CO ₂	Permit ppm @ 12% CO ₂	Test ppm @ 12% CO ₂	Test ppm @ 12% CO ₂	Test ppm @ 12% CO2	ppm @ 12% CO ₂
NOx	385(¹)	404	357(²)	318(³)	311(4)	327
H ₂ SO ₄	12 . 4(⁶)	21.1	D	ATA NOT AVAIL	BLE	15.2

Ogden Projects, Inc. Data, 3-hr rolling average, worse case.
 Ogden Projects, Inc. Data, 3-hr rolling average, worse case.
 Cooper Engineer's Report "Air Emission Testing at the Wurzburg, West Germany Waste-to-Energy Facility", June 1986, 3-hr average.
 Ogden Projects, Inc. Report #124, averaging period unknown.
 Preliminary data obtained during testing at the Hillsborough Facility, 3-hr average.

(6) Ogden Projects, Inc. Report Number 101.

The requested emission limitations of 0.34 gr/dscf @ 12% $\rm CO_2$ and 0.072 gr/dscf @ 12% $\rm CO_2$ for NOx and sulfuric acid mist are equivalent to 404 ppm @ 12% $\rm CO_2$ and 39 ppm @ 12% $\rm CO_2$, respectively.

Comparing these requested levels to the data for the other facilities it suggests that these requested limits are indeed reasonable.

In addition to comparing the requested emission limitations to the facilities incorporating similar designs as illustrated in the table above, the requested emission limits have been compared to the permitted emission levels of other mass burn type ERF's permitted in the State of Florida. In making the comparisons, the requested limitations have been converted to the equivalent emission rate in units of pounds of pollutant emitted per ton of refuse are combusted. These values for the pollutant NOx are given below.

Facility	Permitted NOx Emission (lb/ton)
Pinellas County	4.3
City of Tampa	7.2
Broward South	5.0
Broward North	5.0
Lake County	5.0
Hillsborough County	6.4*

^{*} requested emission limitation

In accordance with these permitted NOx emission limitations for other ERF's in the State of Florida, once again the applicant's request appears to be reasonable.

With regard to emissions of sulfuric acid mist from these facilities, the test data is very limited. Of the mass burn type resource recovery facilities operating or being constructed in the state, only the Hillsborough County ERF has a set an emissions limit for sulfuric acid mist. In fact, in preparing the PSD permits for both the South and North Broward County ERF's, Region IV of the EPA decided to not set an emission limitation for sulfuric acid mist, even though the quantity of these emissions exceeds the significant rate. With regard to this request to increase sulfuric acid emissions at the Hillsborough County Facility, Region IV, proposed that no emission limit be included in the permit.

This recommendation by Region IV is based on results obtained when using the Referenced Test Method (Method 8) for quantifying sulfuric acid mist emissions. EPA has stated in a letter to DER that due to concentrations of fluoride and ammonia in the flue gases, Method 8 is biased high. As is the case, no acceptable test method exists for measuring sulfuric acid mist emissions from municipal solid waste incinerators which has prompted the deletion of the sulfuric acid mist limitation entirely. In accordance with this determination, no emission limitation for sulfuric acid mist will be included in this permit.

V. Air Quality Analyses

The emission increases proposed at the ERF are subject to review under the PSD regulations. NOx and sulfuric acid mist both exceed the significant emission increase level for PSD applicability. Particulate matter, although increasing, will not be significant. A review has been completed to determine the air quality impact of these emission increases. Based on this review, DER has reasonable assurance that the ERF will not cause or contribute to a violation of any PSD increment or ambient air quality standard.

Modeling Methodology

The review of the proposed emission increases (modification) utilizes the dispersion modeling previously completed by the applicant in their original application for the new facility. DER has accepted this previous modeling since the new facility was just recently permitted and the only pollutant subject to modeling is NOx. The model used in that analysis was the EPA-approved Industrial Source Complex Short- term (ISCST) dispersion model. The details of that modeling can be found in the preliminary determination (PSD-FL-104) for the original new facility.

Only the facility itself was modeled for NOx; other sources of this pollutant in the area of the Hillsborough facility were considered as part of the background concentration. Since the predicted ambient concentration is linearly related to the emission rate, the impact of the emissions increase can easily be determined. The stack parameters and emission rates used in evaluating the ambient impacts are listed in Table V-1.

Analysis of Existing Air Quality

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Preconstruction ambient air quality monitoring is required for all pollutants subject to PSD review. In general, one year of quality assured data using an EPA-reference, or the equivalent, monitor must be submitted. Sometimes less than one

Table V-l
Hillsborough County Energy Recovery Facility
Source and Emission Parameters

Stack Height (m)	Exit Temp. (k)	Exit Velocity (ms)	Stack Diameter (m)	NOx (g/s)	H2SO4 (g/s)	UTM-E (km)	UTM-N (km)
67.0	494	16.9	3.50	58.9	12.8	368.2	3092.7

Table V-2
Hillsborough County Energy Recovery Facility
Ambient Air Quality Impacts

Pollutant and Averaging Time	Max. Impact Modification	Max. Impact Facility	Existing Background	Max. Total	National AAQS
NOx Annual	l ug/m³	2 ug/m ³	39 ug/m ³	41 ug/m ³	100 ug/m ³
H ₂ SO ₄ mist 24-hour	9 ug/m ³	9 ug/m ³			

year of data, but no less than four months, may be accepted when DER approval is given.

An exemption to the monitoring requirement can be obtained if the maximum air quality impact, as determined through air quality modeling, is less than a pollutant-specific deminimus concentration. In addition, if current monitoring data already exist and these data are representative of the proposed source area, then at the discretion of DER these data may be used.

The predicted maximum air quality impacts of the proposed emission increase for NOx is given in Table V-2. This value (ll ug/m^3) is less than the deminimus level of 14 ug/m^3 . As such, DER is not requiring preconstruction monitoring for this pollutant. No deminimus impact level is defined for sulfuric acid mist and no preconstruction monitoring is being required. A background concentration of NOx of 39 ug/m^3 is based on the most recent year of existing monitoring data at a site 9.9 kilometers from the ERF.

Ambient Air Quality Standards Analysis

Given existing air quality in the area of the proposed Hillsborough County ERF, emissions from the modification are not expected to cause or contribute to a violation of an ambient standard. Table V-2 summarizes the total impact. Sulfuric acid mist is not included because no ambient air quality standard has been promulgated for this pollutant. It is regulated through the PSD review process by the application of BACT.

Additional Impacts Analysis

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a. Impacts on Soils and Vegetation

The increased emissions of NOx and sulfuric acid mist are not expected to cause or contribute to harmful impacts on soils and vegetation. Emissions of NOx are predicted to increase ambient concentrations in the surrounding area by only a small fraction of the existing levels. Existing levels of this pollutant are dominated by automobile emissions. Emissions of sulfuric acid mist result in a maximum 24-hour concentration of 9 ug/m³. Much research is currently being done on the effects of acid moisture on soils and vegetation. There is no evidence at this time to expect detrimental effects at this concentration level.

b. Growth-Related Air Quality Impacts

The modification requested will not change employment, population, housing, or commercial/industrial development in the area to the extent that an air quality impact will result.

c. GEP Stack Height Determination

GEP Stack Height means the greater of: (1) 65 meters; or (2) the maximum nearby building height plus 1.5 times the building height or width, whichever is less. For the proposed project the building height is 42.7 meters above ground level and the projected width is 56.4 meters. Thus definition (2) above leads to a GEP Stack Height of 106.8 meters. The proposed stack height is 67 meters. This is less than the GEP Stack Height. The applicant has addressed the possible increased ground-level concentrations (as a result of aerodynamic downwash) by including a downwash mechanism in the modeling.

OGDEN MARTIN SYSTEMS OF HILLSBOROUGH INC.

40 LANE ROAD ON 2615 FAIRFIELD NEW JERSEN 07007-2615 (201) 852-9060

June 12, 1987

HC-0861L C-1005

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

DER
JUN 1 6 1987

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.

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,

. R. Treshler

Senior Project Manager

JRT:hn

Attachment

cd: 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

DRAWING NO.: A-86JC-040 TAG INFO.: P.O. #DU-365D

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 1 Cloth Area: 1,526 ft 2 Ratio: 6.23/11

Dust: Fly Ash

Dust Size:

lb/cu.ft. Dust Loading: gr/cu.ft. Dust Density: Temperature: 70°F Dew Pt.: Deg.F

(collector temperature must be kept well above dew point)

End Use: Unknown

Weight: 5450 lbs.

Design Press.: 17° W.G.

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: C1C111

 Solenoid Valves: E24104
 Bag Clamps: M12803

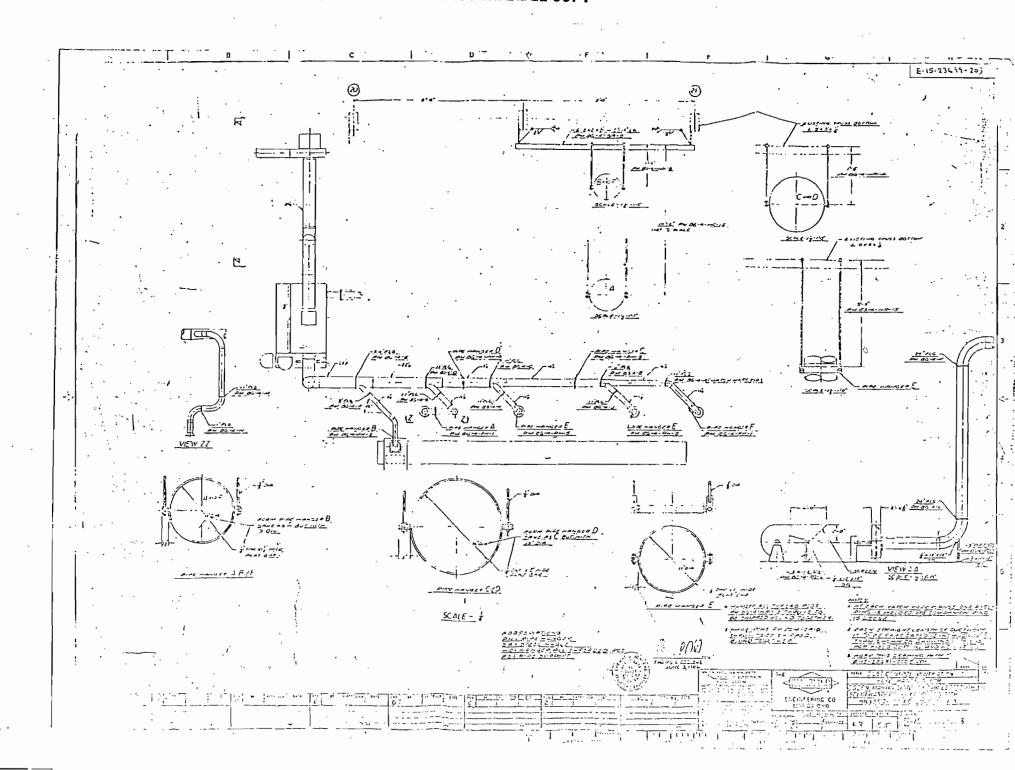
 Venturis: M11038
 Bag Cups: M10725

Filter Bags: 16oz. Polyester/singed (B25614)

Page 1 of 2

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

BEST AVAILABLE COPY



HILLSBOROUGH COUNTY FLORIDA O SOLID WASTE ENERGY RECOVERY PROJECT

MARKED TO REFLECT ASH BLDG. DUST SUPPRESSION BAG HOUSE SUPPLEMENTAL INFORMATION

MOTE:

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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
PSD PERMIT FOR THE

HILLSBOROUGH COUNTY ENERGY RECOVERY FACILITY BRANDON, FLORIDA

AGENCY: Environmental Protection Agency.

ACTION: Notice.

SUMMARY: Notice is hereby given that the Prevention of Significant Deterioration (PSD) permit issued to the Hillsborough County Department of Solid Waste on July 7, 1986, became effective on August 11, 1986. The permit was issued for the construction of a 1200 ton per day municipal solid waste incineration facility with electrical generation capability.

DATE: This action is effective as of August 11, 1986, the effective date of the PSD permit. Construction must begin within eighteen (18) months of this date or the permit will become invalid.

ADDRESSES: Copies of the PSD permit, permit application, preliminary and final determinations are available for public inspection upon request at the following locations:

U.S. Environmental Protection Agency Air Programs Branch 345 Courtland Street, N.E. Atlanta, Georgia 30365

Bureau of Air Quality Management
Florida Department of Environmental
Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301

FOR FURTHER INFORMATION CONTACT: Wayne Aronson of the EPA Region IV, Air Programs Branch at the Atlanta address given above, telephone (404) 347-4901; (FTS) 257-4901.

SUPPLEMENTAL INFORMATION: On December 13, 1985, the Hillsborough County Department of Solid Waste submitted an application to construct three 400 ton per day municipal solid waste incinerators near Brandon, Florida. The preliminary determination was issued by the Florida Department of Environmental Regulation (DER) on March 25, 1986, and the public comment period commenced on April 7, 1986. The Final Determination was issued by the Florida DER on May 30, 1986. Comments on the determinations were made by both EPA and the Hillsborough County Department of Solid Waste in reference to various permit conditions. No other comments were received during the public comment period.

The federal PSD permit was issued on July 7, 1986, and became effective on August 11, 1986. The effective date of this permit constitutes final Agency action under 40 CFR §124.19(f)(1) and Section 307 of the Clean Air Act, for purposes of judicial review.

*Under Section 307(b)(1) of the Act, petitions for judicial review of this action must be filed in the United States Court of Appeals for the appropriate circuit by [60 days from today]. This action

may not be challenged later in proceedings to enforce its requirements (see §307(b)(2)). If construction does not commence within eighteen (18) months after the effective date, that is, by February 11, 1988, or if construction is not completed within a reasonable time, the permit shall expire and the authorization to construct shall become invalid.

(Sections 160-169 of the Clean Air Act (42 U.S.C. 7470-7479).)

DATE.

SEP - 9 1986 .

Lee A. DeHihns, III, Deputy REGIONAL ADMINISTRATOR

Le a. Deller as, Depr

PERMIT TO CONSTRUCT UNDER THE RULES FOR THE PREVENTION

OF SIGNIFICANT DETERIORATION OF AIR QUALITY

Pursuant to and in accordance with the provisions of Part C, Subpart 1 of the Clean Air Act, as amended, 42 USC §7470 et. seg., and the regulations promulgated thereunder at 40 CFR §52.21, as amended at 45 Fed. Reg. 52676, 52735-41, (August 7, 1980).

Hillsborough County Department of Solid Waste

is, as of the effective date of this permit (PSD-FL-104) authorized to construct a stationary source at the following location:

0.6 miles North of State Route 60 between Faulkenburg Road and the TECO transmission line corridor in Hillsborough County, Florida

Upon completion of authorized construction and commencement of operation/production, this stationary source shall be operated in accordance with the emission limitations, sampling requirements, monitoring requirements and other conditions set forth in the attached Specific Conditions (Part I) and General Conditions (Part II)

This permit is hereby issued on JUL 2 1986 and shall become effective thirty (30) days after receipt hereof unless a petition for administrative review is filed with the Administrator during that time. If a petition is filed any applicable effective date shall be determined in accordance with 40 CFR §124.19(f)(1).

If construction does not commence within 18 months after the effective date of this permit, or if construction is discontinued for a period of 18 months or more, or if construction is not completed within a reasonable time, this permit shall expire and authorization to construct shall become invalid.

This authorization to construct/modify shall not relieve the owner or operator of the responsibility to comply fully with all applicable provisions of Federal, State, and local law.

Regional	Admin	uist	rator
21 C. S. A. C. 12 C. T.	E 2-7/2 E (C. 2). E (

PART I

Specific Conditions

- 1. Emission Limitations
 - a. Stack emissions from each unit shall not exceed the following:
 - (1) Particulate matter: 0.021 grains per dry standard cubic foot corrected to 12% CO₂ (gr/dscf-12%) or 7.0 pounds per hour per unit, whichever is more restrictive.
 - (2) Visible Emissions: Opacity of stack emissions shall not be greater than 15% opacity except that 20% opacity may be allowed for one six-minute period (average of 24 consecutive observations recorded at 15-second intervals) in any one hour. Excess opacity resulting from startup or shutdown shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess opacity shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by EPA for longer duration.

Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during start-up or shutdown shall be prohibited. Opacity of other emission points at the plant shall not exceed 5%.

- (3) VOC: 0.01 gr/dscf-12%, or 0.2 lb/ton, whichever is more restrictive
- (4) SO₂: 0.17 gr/dscf-12% or 3.2 lb/ton, whichever is more restrictive, 24-hour average, 0.45 gr/dscf-12% or 8.5 lb/ton, whichever is more restrictive, 3-hour average
- (5) Nitrogen Oxides: 0.16 gr/dscf-12%, or 3.0 lb/ton, whichever is more restrictive
- (6) Carbon Monoxide: 0.093 gr/dscf-12%, or 1.8 lb/ton, whichever is more restrictive.

- (7) Lead: 0.00104 gr/dscf-12%, or 0.020 lb/ton, whichever is more restrictive.
- (8) Fluorides: 0.0031 gr/dscf-12%, or 0.060 lb/ton, whichever is more restrictive.
- (9) Sulfuric Acid Mist: 0.0040 gr/dscf-12%, or 0.077 lb/ton, whichever is more restrictive.
- (10) Beryllium: 6.8 x 10-7 gr/dscf-12%, or 1.3 x 10-5 lb/ton, whichever is more restrictive.
- (11) Each of the emission limits in conditions (1) and (3) through (10) is to be expressed as a 3-hour average. This averaging time, which is applicable to the emission limits for all pollutants, is based on the expected length of time for a particulate compliance test. The concentration standards in conditions (3) through (10) are included as the primary compliance limit to facilitate simpler compliance testing, since the process weight, in tons per hour, is not easily measured. concentration limit is intended to be equivalent to the lb/ton limit. The concentration limits were derived by dividing the lb/ton limits by the calculated volume of flue gas produced when one ton of refuse is combusted. If actual process conditions, i.e., dscf per ton of refuse fired, are different than projected by the applicant, EPA may, at its discretion, determine compliance based upon the lb/ton limits.
- (12) Mercury: 2200 grams/day
- (13) The potential for dust generation by ash handling activities will be mitigated by quenching the ash prior to loading in ash transport trucks.

 Additionally, all portions of the proposed facility including the ash handling facility which have the potential for fugitive emissions will be enclosed. Also those areas which have to be open for operational purposes, e.g., tipping floor of the refuse bunker while trunks are entering and leaving, will be under negative air pressure.
- (14) Each of the three units is subject to 40 CFR Part 60, Subpart E, New Source Performance Standards

(NSPS), except that where requirements in this permit are more restrictive, the requirements in this permit shall apply.

(15) Only natural gas will be used as an auxillary fuel.

b. Compliance Tests

(1) Compliance tests for particulate matter, SO₂, nitrogen oxides, CO, VOC, sulfuric acid mist, fluorides, mercury and beryllium shall be conducted in accordance with 40 CFR 60.8 (a), (b), (d), (e), and (f), except that an annual test will be conducted for particulate matter. Compliance tests for opacity will be conducted simultaneously during each compliance test run for particulate matter.

Compliance tests shall be conducted for such time and under such conditions as specified by EPA prior to the compliance test. These conditions will be specified by EPA upon notification of performance tests as required by General Condition 1. The permittee shall make available to EPA such records as may be necessary to determine the conditions of the performance tests.

- (2) The following test methods and procedures from 40 CFR Parts 60 and 61 shall be used for compliance testing:
 - a. Method 1 for selection of sample site and sample traverses
 - b. Method 2 for determining stack gas flow rate when converting concentrations to or from mass emission limits.
 - c. Method 3 for gas analysis when needed for calculation of molecular weight or percent CO₂.
 - d. Method 4 for determining moisture content when converting stack velocity to dry volumetric flow rate for use in converting concentrations in dry gases to or from mass emission limits.

- e. Method 5 for concentration of particulate matter and associated moisture content. One sample shall constitute one test run.
- f. Method 9 for visible determination of the opacity of emissions.
- g. Method 6 for concentration of SO₂. Two samples, taken at approximately 30 minute intervals, shall constitute one test run.
- h. Method 7 for concentration of nitrogen oxides. Four samples, taken at approximately 15 minute intervals, shall constitute one test run.
- i. Method 8 for determination of sulfuric acid mist concentration and associated moisture content. One sample shall constitute one test run.
- j. Method 10 (continuous) for determination of CO concentrations. One sample constitutes one test run.
- k. Method 12 for determination of lead concentration and associated moisture content. One sample constitutes one test run.
- 1. Method 25 for determination of volatile organic compounds (VOC) concentration. One sample shall constitute one test run.
- m. Method 13A or 13B for determination of fluoride concentrations and associated moisture content. One sample shall constitute one test run.
- n. Method 101A for determination of mercury emission rate and associated moisture content. One sample shall constitute one test run.
- o. Method 104 for determination of beryllium emission rate and associated moisture content. One sample shall constitute one test run.
- (3) The stack tests shall be performed at +10% of the heat input rate of 150 million Btu per hour per boiler; however, compliance with the particulate matter emission limit shall be at design capacity.

- 2. The height of the boiler exhaust stack shall be 220 feet above ground level at the base of the stack.
- 3. The incinerator boilers shall not be loaded in excess of their rated capacity of 36,666 pounds per hour each. 18,3 tons/lr
- 4. The incinerator boilers shall have a metal name plate affixed in a conspicuous place on the shell showing manufacturer, model number, type waste, rated capacity and certification number.
- 5. The permittee must submit to EPA and DER within fifteen (15) days after it becomes available to the County, copies of technical data pertaining to the incinerator boiler design, to the electrostatic precipitator design, and to the fuel mix that can be used to evaluate compliance of the facility with the preceeding emission limitations.
- 6. Grease, scum, grit screenings or sewage sludge shall not be charged into the solid waste to energy facility boilers.
- 7. Electrostatic Precipitator

The electrostatic precipitator shall be designed and constructed to limit particulate emissions to no more than 0.021 grains per dscf corrected to 12% CO₂.

8. Stack Monitoring Program

The permittee shall install and operate continuous monitoring devices for stack oxygen and opacity. The monitoring devices shall meet the applicable requirements of Rule 17-2.710, FAC, 40 CFR Part 60, Subparts A and D, Sections 60.13 and 60.45 respectively, except that emission rates shall be calculated in units consistent with emission limits in this permit. The conversion procedure shall be approved by EPA.

9. Reporting

- a. A copy of the results of the stack tests shall be submitted within forty-five days of testing to the DER Southwest Florida District Office, the Hillsborough County Environmental Protection Commission (HCEPC) and EPA Region IV.
- b. Stack monitoring shall be reported to HCEPC, the DER Southwest District Office and EPA Region IV on a quarterly basis in accordance with Section 17-2.710, FAC, and 40 CFR, Part 60, Subsection 60.7.

10. Fuel

The Resource Recovery Facility shall utilize refuse such as garbage and trash (as defined in Chapter 17-7, FAC) but not sludge from sewage treatment plants as its fuel. Use of alternate fuels would necessitate application for a modification to this permit.

- 11. Addresses for submitting reports are:
 - a. EPA Region IV

Chief, Air Compliance Branch U.S. Environmental Protection Agency 345 Courtland St. Atlanta, GA 30365

b. DER

Chief, Compliance and Ambient Monitoring
Bureau of Air Quality Management
Florida Department of Environmental
Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32301

c. Southwest District Office of DER

District Manager
Department of Environmental Regulation
7601 Highway 301 N.
Tampa, FL 33610

d. HCEPC

Chief, Air Group
Hillsborough County Environmental
Protection Commission
1900 9th Ave.
Tampa, FL 33605

12. The facility shall provide space for the future installation, if necessary, of a wet or dry flue gas scrubber.

PART II

General Conditions

- The permittee shall comply with the notification and recordkeeping requirements codified at 40 CFR Part 60, Subpart A, ¶ 60.7.
- 2. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of two (2) years from the date of recording.
- 3. If, for any reason, the permittee does not comply with or will not be able to comply with the emission limitations specified in this permit, the permittee shall provide EPA with the following information in writing within five (5) days of such conditions:
 - (a) description of noncomplying emission(s),
 - (b) cause of noncompliance,
 - (c) anticipated time the noncompliance is expected to continue or, if corrected, the duration of the period of noncompliance,
 - (d) steps taken by the permittee to reduce and eliminate the noncomplying emission, and
 - (e) steps taken by the permittee to prevent recurrence of the noncomplying emission.

Failure to provide the above information when appropriate shall constitute a violation of the terms and conditions of this permit. Submittal of the aforementioned information does not constitute a waiver of the emission limitations contained within this permit.

4. Any proposed change in the information submitted in the application regarding facility emissions or changes in the quantity or quality of materials processed that would result in new or increased emissions or ambient air quality impact must be reported to EPA. If appropriate, modifications to the permit may then be made by EPA to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause violation of the emission limitations specified herein. Any construction or operation of the source in material variance with the application shall be considered a violation of this permit.

- 5. In the event of any change in control or ownership of the source described in the permit, the permittee shall notify the succeeding owner of the existence of this permit and EPA of the change in control of ownership within 30 days.
- 6. The permittee shall allow representatives of the state and local environmental control agency or representatives of the EPA upon the presentation of credentials:
 - (a) to enter upon the permittee's premises, or other premises under the control of the permittee, where an air pollutant source is located or in which any records are required to be kept under the terms and conditions of the permit;
 - (b) to have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit, or the Clean Air Act;
 - (c) to inspect at reasonable times any monitoring equipment or monitoring method required in this permit;
 - (d) to sample at reasonable times any emissions of pollutants; and
 - (e) to perform at reasonable times an operation and maintenance inspection of the permitted source.
- 7. The conditions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.

COMMISSION
PHYLLIS BUSANSKY
JOE CHILLURA
SYLVIA KIMBELL
LYDIA MILLER
JIM NORMAN
JAN KAMINIS PLATT
ED TURANCHIK

FAX (813) 272-5157



ROGER P, STEWART EXECUTIVE DIRECTOR ADMINISTRATIVE OFFICES AND

ADMINISTRATIVE OFFICES AND WATER MANAGEMENT DIVISION 1900 - 9TH AVENUE TAMPA, FLORIDA 33605 TELEPHONE (813) 272-5960

AIR MANAGEMENT DIVISION TELEPHONE (813) 272-5530

WASTE MANAGEMENT DIVISION TELEPHONE (813) 272-5788

RFC ECOSYSTEMS MANAGEMENT DIVISION TELEPHONE (813) 272-7104

MEMORANDUM

Air Regulation

DATE:

July 25, 1994

TO:

Teresa Heron

FROM:

Jerry Campbe

SUBJECT: Hillsborough County's Resource Recovery Unit (RRU)

This is in response to Daryl Smith's letter of July 8 requesting an amendment of their PSD permit (PSD-FL-121). They are seeking to change the daily throughput of municipal waste from 1200 to 1320 tons, and to revise the method of demonstrating compliance with this limitation. We have reviewed their request and offer the following comments:

- 1. We feel the request should be handled pursuant to Rule 17-4.055, F.A.C., thus any additional information should be requested within 30 days of receipt of Mr. Smith's letter. We received it on July 11 and it is our understanding you received it on July 15. We are not sure which "triggers the clock."
- 2. In order to process the Solid Waste Department's request, we first need to determine which authorization represents the PSD program. You recall the EPA issued the first PSD permit in 1986 after they revoked the State's delegation. That permit (PSD-FL=104) contains a daily throughput limitation on page 1, and contrary to Mr. Smith's opinion, we believe it is enforceable. The permit that Solid Waste requested to amend (PSD-FL-121) was issued by the Department in 1987 and was intended to modify the EPA's. It raised the NOx emission standard and dropped the sulfuric acid mist limit after the RRU failed tests on both. The 1200 TPD throughput limitation was carried forward and the permit #121 expired prior to 1990. The EPA's 1986 permit has no expiration date.

Teresa Heron July 25, 1994 Memorandum Page 2

Sometime around 1990, the Department's PSD delegation was revoked again following a TECO court decision. Apparently the way the PPSA was written it took precedence over PSD permits, and the EPA was not satisfied. Because permit PSD-FL-121 was issued during a period when the EPA found Florida's PSD program to be flawed, and it has expired, we believe the EPA would recognize PSD-FL-104 as the only valid PSD permit for the RRU. So if it is the Solid Waste Department's intent to seek authorization to burn more municipal waste, they may need to be seeking to modify PSD-FL-104.

Before we proceed much further, Region IV should be consulted.

- 3. Regardless of which permit the EPA recognizes as the valid PSD authorization, the request must be handled as a modification. Both PSD-FL-104 and PSD-FL-121 contain a daily limitation, and the Solid Waste Department wants to exceed that figure by another by 120 tons. They could either complete a DEP From 17-1.202(1), F.A.C., with an engineer's seal and fee; or since the PPSA now correctly incorporates the PSD program, they could simply reopen their certification. Either way they would need to address the incremental increase between their current actuals and their new allowables. In this case, we would not want to reward them for exceeding the 1200 TPD limit for the past 8 years, so we may have to adjust their actual emissions down to a level they were authorized to burn. incremental increase would be used to determine whether nonattainment new source review (VOC and NOx) or PSD (other regulated pollutants; is triggered.
- 4. They are also requesting a surrogate means of monitoring the amount of waste they burn. We are receptive to the request to use steam flow with one exception. The heat content of the waste is highly variable depending on the amount of the moisture and its makeup. We have been told it can range from 4000 to 5000 BTU per pound of municipal waste (a full 25% over the lower end value). Their proposal is to use a mid-range value of 4500, while we feel a more conservative figure of 4000 should be used. This would ensure that even on a low BTU waste day (typical throughout the rainy season), that the ton per day limitation in the permit was not exceeded.

Below is an illustration of our concern.

Teresa Heron July 25, 1994 Memorandum Page 3

Permit Limitation After Modification: 1320 TPD
Compliance Monitoring: 98,388 pounds of steam per hour per boiler using 4500 BTU per pound of waste

Steam Required
3 units x 98,388 $\frac{\# \text{ steam}}{\text{unit-hr}}$ x 24 $\frac{\text{hr}}{\text{day}}$ = 7,083,936 $\frac{\# \text{ steam}}{\text{day}}$

Scenario #1 - Actual Heat Content of Waste Burned is 4500 BTU per Pound

7,083,936 <u># steam</u> x <u>1677 BTU</u> x <u>Ton Waste</u> = 1320 <u>Tons_Waste</u> day # steam 2000 # Waste day

Scenario #2 - Actual Heat Content of Waste Burned is 4000 BTU per Pound

Under Scenario #2, the proposed compliance methodology fails to accurately quantify the amount of waste burned. While they would report they complied with a 1320 ton limitation, they would have exceeded this by 165 tons. In fact, they will exceed their limitation on a regular basis during the summer season when the heat content is lower.

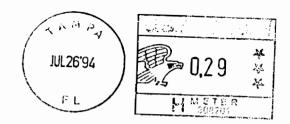
5. We acknowledge that the EPA has proposed to use the 4500 BTU per pound figure and steam flows in their proposed NSPS. It is our understanding, however, that they are simply using it to characterize the incinerator's capacity—not as surrogate for daily throughput. We concur that steam flow may be a more practical means of monitoring the source's potential emissions, but we feel you must not accept a procedure which will routinely underpredicts the amount of waste burned.

Thanks for the opportunity to provide input and please keep us advised.

bm

Environmental Protection Commission of Hillsborough County

1900 9th Avenue Tampa, Florida 33605



Ms. Teresa Heron
Division of Air Resources Management
Florida Department of Environmental
Protection
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400



·						
B	SENDER: Complete froms 1, 2, 3 and 4;					
Form 3811, July 1983 447-845	Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmester for fees and check box(es) for service(s) requested. 1. A Show to whom, date and address of delivery.					
447 -8	2: 🖫 Restricted Dolivory.					
6	3. Article Addressed to: Richard W. Seelinger					
·*.	Ogden Martin Sys. of Hills. Co., 40 Lane Road, CN 2615 Fairfield, NJ 07007-2615					
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	☐ Registered ☐ Fosured ☐ Cortified ☐ COD ☐ P 274 007 666 ☐ Express Mail					
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RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED NOT FOR INTERNATIONAL MAIL (See Reverse)

(See Reverse)

Richard W. Seelinger
Ogden Martin Sys. of Hills
Street and No
40 Lane Road, CN 2615

PO. State and ZIP Code
Fairfield, NJ 07007-2615

Postage

Certified Fee
Special Delivery Fee

Restricted Delivery Fee

Return Receipt showing to whom and Date Delivery

Return Receipt showing to whom.
Dee, and Address of Delivery

TOTAL Postage and Fees

Postmark or Date
Mailed: 10/14/87

Fed. Permit: PSD-FL-121

Final Determination

Hillsborough County, Florida

Resource Recovery Facility Modification File No. PSD-FL-121

Florida Department of Environmental Regulation Bureau of Air Quality Management Central Air Permitting

October 14, 1987

Final Determination

The application by Hillsborough County, through Ogden Martin Systems of Hillsborough, Inc., to increase the allowable nitrogen oxides (NOx) and sulfuric acid mist (acid mist) emissions at the Resource Recovery Facility in Hillsborough County (HCERF), has been reviewed by the Bureau of Air Quality Management. Public Notice of the Department's Intent to Issue the permit was published in the Tampa Tribune on July 19, 1987.

Comments were received from Bruce Miller, U.S. EPA Region IV; David Dee, attorney for Hillsborough County; and Mr. J. R. Treshler of Ogden Projects, Inc. Although the Department acknowledges that comments concerning the Preliminary Determination help state some issues more clearly, responses will be limited to comments pertaining to the proposed permit. Responses to the comments received are addressed below, on a letter by letter basis.

Letter 1, Hillsborough County (attachment 4)

Comment 6, page 2: Attachment 4 should convey to the County what EPA's view is on the Department's permit processing approach.

Comment 1, page 3: Several specific conditions were repeated from the original permit, PSD-FL-104, in order to maintain continuity on issues pertaining to NOx and acid mist in the proposed permit, PSD-FL-121.

Comments 2, 3, 4, 5, and 6; pages 3 and 4: The Department will make changes in the permit to reflect agreement with these comments.

Letter 2, Ogden Projects (attachment 5)

Comment 1, page 3: The emission increases of NOx, acid mist and particulates are addressed together in the permit overview because they are in the same facility and covered under the same permit.

Comment 2, page 3: The Department will make a change in the permit to make clear the fact that emission limits and compliance testing for acid mist have been deleted in the proposed permit.

Letter 3, U.S. EPA (attachment 6)

The Department agrees with EPA's comments that the proposed permit should state how permit PSD-FL-121 supercedes permit PSD-FL-104 on emission limits for NOx and acid mist. A paragraph will be added to the permit to that effect.

Letter 4, U.S. Department of the Interior (attachment 7)

The Department of the Interior's comment arrived after the closing date of the comment period, however, with the permission of the applicant, DER has reviewed the comment as a courtesy.

DER does not feel that the proposed NOx emission rate of the Hillsborough County RRF shall be compared to other facilities in the State of Florida which incorporate a different type of technology than the Hillsborough facility. In addition, DER is not supportive of setting an emissions limitation which is equivalent to any one test result.

Letter 5, Hillsborough County Environmental Protection Commission (attachment 8)

The Hillsborough County Environmental Protection Commission's comment arrived after the closing date of the comment period. Upon discussing the situation with the applicant, the Department has decided to not include these comments as part of the Final Determination, but will address the comments at a later date by means of a letter.

Listed below are the changes the Department will make in the proposed permit to reflect consideration of the comments received from all the parties, as mentioned earlier.

Changes in Paragraph 2, page 1 of the permit

From:

For the modification of a 1,200 ton per day resource recovery facility to be located at the permitted existing municipal solid waste resource recovery facility in Hillsborough County approximately two miles east of Tampa on the county's Faulkenburg Road site. The UTM coordinates of the proposed plant are 368.2 km E and 3092.7 km N.

To:

For the modification of a 1,200 ton per day resource recovery facility located at the permitted existing municipal solid waste resource recovery facility in Hillsborough County approximately two miles east of Tampa on the county's Faulkenburg Road site. The UTM coordinates of the plant are 368.2 km E and 3092.7 km N.

Change in Paragraph 3, page 1 of the permit

From:

This permit solely pertains to the pollutant increases (nitrogen oxides, sulfuric acid mist, and particulates) which result from

this modification. Only specific conditions l.a.(3), l.b., and l.c.(1) have been modified and/or added to reflect the changes requested in this modification. For clarity purposes, the remaining specific conditions which pertain to the pollutants addressed in this modification have been repeated as they appeared in the original PSD permit (PSD-FL-104). The other pollutants emitted from this facility are addressed in the original PSD permit.

To:

This permit solely pertains to the pollutant increases (nitrogen oxides, sulfuric acid mist, and particulates) which result from this modification. Only specific condition 1. has been modified to reflect the changes requested in this modification. For clarity purposes, the remaining specific conditions which pertain to the pollutants addressed in this modification have been repeated as they appeared in the original PSD permit (PSD-FL-104) and also Specific Condition No. 11 has been added. The other pollutants emitted from this facility are addressed in the original PSD permit. This facility is not subject to any emission limitations or testing requirements for sulfuric acid mist. Except as expressly provided in the specific conditions contained herein, all of the other provisions of permit No. PSD-FL-104 remain in effect.

Changes in General Condition No. 13

From:

- 13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 - () Determination of Prevention of Significant Deterioration (PSD)
 - () Compliance with New Source Performance Standards.

To:

- 13. This permit also constitutes:
 - (x) Determination of Best Available Control Technology (BACT)
 - (x) Determination of Prevention of Significant Deterioration (PSD)
 - (x) Compliance with New Source Performance Standards.

Changes in Specific Conditions No. 1.a.(4)

From:

(4) Each of the emission limits in conditions (1) through (3) is to be expressed as a 3-hour average. This averaging time, which is applicable to the emission limits for all pollutants, is based on the expected length of time for a particulate compliance test. The concentration standards in conditions (2) and (3) are included as the primary compliance limit to facilitate simpler compliance testing, since the process weight, in tons per hour, is not easily measured. The concentration limit is intended to be equivalent to the lb/ton limit. The concentration limits were derived by dividing the lb/ton limits by the calculated volume of flue gas produced when one ton of refuse is combusted. If actual process conditions, i.e., dscf per ton of refuse fired, are different than projected by the applicant, EPA may, at its discretion, determine compliance based upon the lb/ton limits.

To:

(4) Each of the emission limits in conditions (1) and (3) is to be expressed as a 3-hour average. This averaging time, which is applicable to the emission limits for all pollutants, is based on the expected length of time for a particulate compliance test. The concentration standards in conditions (1) and (3) are included as the primary compliance limit to facilitate simpler compliance testing, since the process weight, in tons per hour, is not easily measured. The concentration limit is intended to be equivalent to the lb/ton limit. The concentration limits were derived by dividing the lb/ton limits by the calculated volume of flue gas produced when one ton of refuse is combusted. If actual process conditions, i.e., dscf per ton of refuse fired, are different than projected by the applicant, EPA may, at its discretion, determine compliance based upon the lb/ton limits.

Addition to Specific Condition l.a.

(7) This facility is not subject to any emission limitations or testing requirements for sulfuric acid mist.

Change in Specific Condition 1.c.(2)g

From:

g. Method 7 for concentration of nitrogen oxides. Four samples, taken at approximately 15 minute intervals, shall constitute one test run.

To:

g. Method 7E for concentration of nitrogen oxides.

Add Specific Condition No. 11

11. This permit shall supercede the NOx and acid mist emission limitations and testing requirements as contained in permit PSD-FL-104.

Attachments to be Added:

- 4. Letter from David Dee, attorney for Hillsborough County, dated August 10, 1987.
- 5. Letter from Ogden Projects, dated August 14, 1987.
- Letter from U.S. EPA dated September 11, 1987.
- 7. Letter from U.S. Department of the Interior, dated September 22, 1987.
- 8. Letter from Hillsborough County Environmental Protection Commission, dated October 2, 1987.

The final action of the Department will be to issue the permit as proposed in the Preliminary Determination with the above mentioned ammendments.

BEST AVAILABLE COPY

THE TAMPA TRIBUNE

Published Daily Tampa, Hillsborough County, Florida

State of Florida County of Hillsborough

Before the undersigned authority personally appeared G. T. Gleason, who on oath says that he is Controller of The Tampa Tribune, a daily newspaper published at Tampa in Hillshorough County, Florida; that the attached copy of advertisement being a			
· · · · · · · · · · · · · · · · · · ·	LEGAL NOTICE		
in the matter of			
in the matter of	PROPOSED AGENCY ACTION ON PERMIT		
	APPLICATION		
Affiunt fu Tampa, in said heretofore been e and has been en Hillsburough Cou tion of the attacl paid nor promise	rther says that the said The Tampa Tribune is a newspaper published at Hillsborough County, Florida, and that the said newspaper has continuously published in said Hillsborough County, Florida, each day tered as second class mail matter at the post office in Tampa, in said inty, Florida, for a period of one year next preceding the first publicated copy of advertisement; and affiant further says that he has neither d any person, firm, or corporation any discount, rebate, commission or purpose of securing this advertisement for publication in the said		
Sworn to and sub	scribed before me, this		
	LISUL D. TUC Its		
(SEAL)	Notary Public. State of Florida My Commission Expires Nov. 23, 1990 Bonded This Tray Fain - Insurance Inc.		

Notice of Frenoised Apency Action on French And Con-Ire Department of Environments Anguar in Gives in

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hearing articer if one has b jeen assigned at the Division of J. Administrative Hearings, Department of Administration, 2009 Abdiachee Parkway, Totlahasse, Florica 32399-2400, if no hearing afficer has been assigned, the petition is to be filled with the Department's Office of General Counsel, 2600 Biair Stone Road, Totlahasse, Florica 32399-2400, Foliure to petition to intervene within the allowed time frame constitutes a watver of any right such person has to request a hearing under Section 120,57, Forida Stantes.

The application is available for public inspection auring normal business hours, 200 a.m. to 500 p.m. Monday through Friday, except legal hollows, at.

through Friday, except a holidays, at: Dept. of Environmental Regulation Southwest District 7601 Highway 301 North Tampa, Florida 33610 Dept. of Environmental Regulation Dept. of Environmental Regulation
Bureou of Air
Quality Monogement
2800 Bioir Stone Rood
Tolkohossee, Fioriao
37399-2400
Hillsborough County
Environmental
Protection Commission
1410 N. 21st Street
Tampa, Fioriao 33605
Any person may send written
comments on the proposed oction to Mr. Bill Thompos of the Department's Toliohossee address, Ail comments
mailed within 30 days of the
publication of this notice will
be considered in the Department's tind determination. Reputation

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32399-2400



BOB MARTINEZ GOVERNOR DALE TWACHTMANN SECRETARY

PERMITTEE:
Hillsborough County
Hillsborough County Courthouse
419 Pierce Street
Tampa, Florida 33602

Permit Number: PSD-FL-121 Expiration Date: March 31, 1988

County: Hillsborough

Latitude/Longitude: 27° 57' 00" N

82° 40' 22" W

Project: Hillsborough County Resource Recovery Modification

This permit is issued under the provisions of Chapter $\frac{403}{17-2}$. Florida Statutes, and Florida Administrative Code Rule(s) $\frac{17-2}{17-2}$ and 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the modification of a 1,200 ton per day resource recovery facility located at the permitted existing municipal solid waste resource recovery facility in Hillsborough County approximately two miles east of Tampa on the county's Faulkenburg Road site. The UTM coordinates of the plant are 368.2 km E and 3092.7 km N.

This permit solely pertains to the pollutant increases (nitrogen oxides, sulfuric acid mist, and particulates) which result from this modification. Only Specific Condition No. 1 has been modified to reflect the changes requested in this modification. For clarity purposes, the remaining specific conditions which pertain to the pollutants addressed in this modification have been repeated as they appeared in the original PSD permit (PSD-FL-104) and also Specific Condition No. 11 has been added. The other pollutants emitted from this facility are addressed in the original PSD permit. This facility is not subject to any emission limitations or testing requirements for sulfuric acid mist. Except as expressly provided in the Specific Conditions contained herein, all of the other provisions of permit No. PSD-FL-104 remain in effect.

Attachments:

- 1. May 1, 1987, letter by Richard W. Seelinger.
- 2. June 8, 1987, letter by Bruce P. Miller, EPA Region IV.
- 3. June 12, 1987, letter by J. R. Treshler.
- 4. Letter from David Dee, attorney for Hillsborough County dated August 10, 1987.
- 5. Letter from Ogden Projects, dated August 14, 1987.

PERMITTEE: Hillsborough County

Permit Number: AC PSD-FL-121 Expiration Date: March 31, 1988

- 6. Letter from U.S. EPA dated September 11, 1987.
- 7. Letter from U.S. Department of the Interior, dated September 22, 1987.
- 8. Letter from Hillsborough County Environmental Protection Commission, dated October 2, 1987.

GENERAL CONDITIONS:

- 1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
- 2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
- 3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
- 4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
- 5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

PERMITTEE: Hillsborough County Permit Number: PSD-FL-121 Expiration Date: March 31, 1988

GENERAL CONDITIONS:

6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

- 7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
 - a. Having access to and copying any records that must be kept under the conditions of the permit;
 - Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

- 8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the Department with the following information:
 - a. a description of and cause of non-compliance; and
 - b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE: Hillsborough County

Permit Number: PSD-FL-121
Expiration Date: March 31, 1988

GENERAL CONDITIONS

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or revocation of this permit.

- 9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the Department, may be used by the Department as evidence in any enforcement case arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.
- 10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
- 11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
- 12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
- 13. This permit also constitutes:
 - (x) Determination of Best Available Control Technology (BACT)

 - (x) Compliance with New Source Performance Standards.
- 14. The permittee shall comply with the following monitoring and record keeping requirements:
 - a. Upon request, the permittee shall furnish all records and plans required under Department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:
Hillsborough County

Permit Number: PSD-FL-121 Expiration Date: March 31, 1988

GENERAL CONDITIONS:

- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by Department rule.
- c. Records of monitoring information shall include:
 - the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.
- 15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be submitted or corrected promptly.

SPECIFIC CONDITIONS:

- 1. Emission Limitations
 - a. Stack emissions from each unit shall not exceed the following:
 - (1) Particulate matter: 0.021 grains per dry standard cubic foot corrected to 12% CO₂ (gr/dscf-l2%) or 7.0 pounds per hour per unit, whichever is more restrictive.

PERMITTEE: Hillsborough County

Permit Number: PSD-FL-121
Expiration Date: March 31, 1988

SPECIFIC CONDITIONS:

(2) Visible Emissions: Opacity of stack emissions shall not be greater than 15% opacity except that 20% opacity may be allowed for one six-minute period (average of 24 consecutive observations recorded at 15-second intervals) in any one hour. Excess opacity resulting from startup or shutdown shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess opacity shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by DER for longer duration.

Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during start-up or shutdown shall be prohibited. Opacity of other emission points at the plant shall not exceed 5%.

- (3) Nitrogen Oxides: 0.34 gr/dscf-l2%, or 6.4 lb/ton, whichever is more restrictive
- (4)Each of the emission limits in conditions (1) and (3) is to be expressed as a 3-hour average. averaging time, which is applicable to the emission limits for all pollutants, is based on the expected length of time for a particulate compliance test. The concentration standards in conditions (1) and (3) are included as the primary compliance limit to facilitate simpler compliance testing, since the process weight, in tons per hour, is not easily measured. The concentration limit is intended to be equivalent to the lb/ton limit. The concentration limits were derived by dividing the lb/ton limits by the calculated volume of flue gas produced when one ton of refuse is combusted. actual process conditions, i.e. dscf per ton of refuse fired, are different than projected by the applicant, DER may, at its discretion, determine compliance based upon the lb/ton limits.
 - (5) The potential for dust generation by ash handling activities will be mitigated by quenching the ash prior to loading in ash transport trucks.

PERMITTEE: Hillsborough County

Permit Number: PSD-FL-121. Expiration Date: March 31, 1988

SPECIFIC CONDITIONS:

Additionally, all portions of the proposed facility including the ash handling facility which have the potential for fugitive emissions will be enclosed. Also those areas which have to be open for operational purposes, e.g., tipping floor of the refuse bunker while trunks are entering and leaving, will be under negative air pressure.

- (6) Each of the three units is subject to 40 CFR Part 60, Subpart E, New Source Performance Standards (NSPS), except that where requirements in this permit are more restrictive, the requirements in this permit shall apply.
- b. Ash handling facility emissions shall not exceed 1.63 pounds per hour.
- c. Compliance Tests
 - (1) Compliance tests for particulate matter, and, nitrogen oxides shall be conducted in accordance with 40 CFR 60.8 (a), (b), (d), (e), and (f), except that an annual test will be conducted for particulate matter. Compliance tests for opacity will be conducted simultaneously with compliance tests for particulate matter. The compliance test requirements for the ash handling facility shall be waived in accordance with Rule 17-2.700(3)(d), FAC.

Compliance tests shall be conducted for such time and under such conditions as specified by EPA prior to the compliance test. These conditions will be specified by DER upon notification of performance tests as required by General Condition 1. The permittee shall make available to DER such records as may be necessary to determine the conditions of the performance tests.

- (2) The following test methods and procedures from 40 CFR Parts 60 and 61 shall be used for compliance testing:
 - a. Method 1 for selection of sample site and sample traverses.

PERMITTEE:
Hillsborough County

Permit Number: PSD-FL-121
Expiration Date: March 31, 1988

SPECIFIC CONDITIONS:

- b. Method 2 for determining stack gas flow rate when converting concentrations to or from mass emission limits.
- c. Method 3 for gas analysis when needed for calculation of molecular weight or percent CO_2 .
- d. Method 4 for determining moisture content when converting stack velocity to dry volumetric flow rate for use in converting concentrations in dry gases to or from mass emission limits.
- e. Method 5 for concentration of particulate matter and associated moisture content. One sample shall constitute one test run.
- f. Method 9 for visible determination of the opacity of emissions.
- q. Method 7E for concentration of nitrogen oxides.
- (3) The stack tests shall be performed at +10% of the heat input rate of 150 million Btu per hour per boiler; however, compliance with the particulate matter emission limit shall be at design capacity.
- 2. The height of the boiler exhaust stack shall not be less than 220 feet above ground level at the base of the stack.
- 3. The boilers shall not be loaded in excess of their rated capacity of 36,666 pounds per hour each.
- 4. The boilers shall have a metal name plate affixed in a conspicuous place on the shell showing manufacturer, model number, type waste, rated capacity and certification number.

PERMITTEE: Hillsborough County

Permit Number: PSD-FL-121
Expiration Date: March 31, 1988

SPECIFIC CONDITIONS:

5. Grease, scum, grit screenings or sewage sludge shall not be charged into the solid waste to energy facility boilers.

6. Electrostatic Precipitator

The electrostatic precipitator shall be designed and constructed to limit particulate emissions to no more than 0.021 grains per dscf corrected to 12% CO₂.

7. Stack Monitoring Program

The permittee shall install and operate continuous monitoring devices for stack oxygen and opacity. The monitoring devices shall meet the applicable requirements of Rule 17- 2.710, FAC, 40 CFR Part 60, Subparts A and D, Sections 60.13 and 60.45 respectively, except that emission rates shall be calculated in units consistent with emission limits in this permit. The conversion procedure shall be approved by DER.

8. Reporting

- a. A copy of the results of the stack tests shall be submitted within forty-five days of testing to the DER Southwest Florida District Office, the Hillsborough County Environmental Protection Commission (HCEPC) and EPA Region IV.
- b. Stack monitoring shall be reported to HCEPC, the DER Southwest District Office and EPA Region IV on a quarterly basis in accordance with Section 17-2.710, FAC, and 40 CFR, Part 60, Subsection 60.7.

9. Fuel

The Resource Recovery Facility shall utilize refuse such as garbage and trash (as defined in Chapter 17-7, FAC) but not sludge from sewage treatment plants as its fuel. Use of alternate fuels would necessitate application for a modification to this permit.

PERMITTEE: Hillsborough County Permit Number: PSD-FL-121 Expiration Date: March 31, 1988

SPECIFIC CONDITIONS:

This permit shall supercede the NOx and acid mist emission limitations and testing requirements as contained in 10. permit PSD-FL-104.

Issued this 14 day of Oct., 1987

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

ATTACHMENT 4

CARLTON, FIELDS, WARD, EMMANUEL, SMITH, CUTLER & KENT, P. A.

C. 101 2. 1

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ATTORNEYS AT LAW

ONE HARBOUR PLACE P. O. BOX 3239
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(904) 224-1585

FLORIOA NATIONAL BANK TOWER
P. O. BOX 4700

JACKSONVILLE: FLORIDA 32201

(904) 354-1600

AUG 1 1 1987

PLEASE REPRACM

August 10, 1987

Tallahassee

Clair H. Fancy
Deputy Chief
Bureau of Air Quality Management
Department of Environmental
Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Re: Hillsborough County resource recovery facility;

DER File No. PSD-FL-121

Dear Mr. Fancy:

This law firm represents Hillsborough County in the above-referenced case. On behalf of Hillsborough County, we are submitting the following comments concerning the Intent to Issue, Technical Evaluation, Preliminary Determination and draft permit issued by the Department of Environmental Regulation (DER) on July 14, 1987.

For the purposes of this submittal, words which have been underlined should be added to the draft document. Words which have been stricken should be deleted.

Intent to Issue

Page 1, paragraph 2, should state that the County applied for a permit modification for "particulate emissions from the existing refuse to energy facility"

Technical Evaluation and Preliminary Determination

l. Page 1, paragraph 1. Hillsborough County believes that its first PSD permit was properly issued pursuant to the Florida Electrical Power Plant Siting Act. The County does not agree

Clair Fancy August 10, 1987 Page Two

with the statements in the Preliminary Determination which suggest that the Florida PSD regulations, State Implementation Plan, Power Plant Siting Act, or original Hillsborough County PSD permit were not valid.

- 2. Page 1, paragraph 1. For purposes of completeness, the Preliminary Determination should discuss the PSD permit (PSD-FL-104) that was issued by the United States Environmental Protection Agency (EPA). Specifically, a preliminary determination was prepared and public comments were solicited by DER on April 6, 1986. DER issued a final determination and recommended issuance of the permit on May 21, 1986. A second PSD permit (PSD-FL-104) for the County's facility was issued by EPA on July 7, 1986.
- 3. Page 2, paragraph 1. The Preliminary Determination should state that the resource recovery facility has been built. It is no longer a "proposed" project.
- 4. Page 2, paragraph 2. The Preliminary Determination should be revised to show that "The ERF is will be located . . ." near Faulkenberg Road. Since the site has been the scene of construction activity for the last 2 ½ years, DER should delete the statement that "[t]he site has been recently used as improved pasture for cattle grazing."
- 5. Page 2, paragraph 3. "The proposed site of the Hillsborough County ERF" is in an area designated as nonattainment for ozone.
- 6. Pages 2-3, Section II, Rule Applicability. Hillsborough County has requested modifications to certain permit conditions for the resource recovery facility. In the Preliminary Determination, DER classified the County's request as a major modification to a major source. We are not sure whether EPA will agree with DER's decision. Since we have had problems in the past with EPA's approvals of this project, we would like to ensure that EPA approves the proposed DER procedure and decision in this case. Accordingly, we respectfully request the Department to obtain a letter or other written statement from EPA acknowledging that: (a) DER's characterization of the County's request is appropriate; (b) DER followed the proper procedure when evaluating the County's request; and (c) DER's decision is appropriate. We believe this issue is extremely important because we do not want EPA to subsequently challenge the Department's activities in this case.

Clair Fancy August 10, 1987 Page Three

- 7. Page 8, paragraph 3, Modelling Methodology. It should be noted that the prior modelling for the facility utilized a conservative approach. The stack parameters and emission rates were based on a maximum facility capacity of 1,760 tons per day and 100% facility availability. As currently constructed, however, the plant will normally handle approximately 1200 tons per day. In addition, it is generally assumed that resource recovery facilities will only be available approximately 85% of the time.
- 8. Page 10, paragraph 2. The predicted maximum ambient air quality impact for the proposed emissions of NOx is 1 ug/m^3 . The preliminary determination incorrectly states that the impact will be 11 ug/m^3 .

Draft PSD Permit

- l. We are concerned about DER's plan to issue a new permit (PSD-FL-121), rather than modify the existing PSD permit (PSD-FL-104). We believe it would be simpler for DER to issue a permit modification that only addresses the specific changes that will be affected by the Department's proposed action. Accordingly, we believe it is unnecessary for the Department to repeat all of the general conditions and specific conditions that have been incorporated into the draft PSD permit (PSD-FL-121). For ease of reference, we have prepared a draft permit and attached it as Exhibit A.
- 2. Page 1, paragraph 3. The draft permit should expressly state that the emissions limits and testing protocol for sulfuric acid mist have been deleted. As written, the draft permit appears to include the emission limits and testing methods for sulfuric acid mist.
- 3. Page 4, pagraph 13. All three of the appropriate spaces should be marked to signify that this permit constitutes a determination of BACT, PSD, and NSPS.
- 4. Page 6, paragraph (4). This requirement should be modified as follows:

Each of the emission limits in conditions (1) and through (3) is to be expressed as a three hour average . . The concentration standards in conditions (1) (2) and (3) are included as the primary compliance limit . . .

Clair Fancy August 10, 1987 Page Four

- 5. Page 7. A new paragraph l.a.(7) should be added. It should expressly state that the emission limitation for sulfuric acid mist has been deleted.
- 6. Page 8, paragraph 1.c.(2)g. Method 7E should be used to determine compliance for nitrogen oxides rather than Method 7.

Please feel free to call me if you have any questions.

Sincerely,

David S. Dee

cc: Bill Thomas
Daryl Smith
Joe Mount
Emmy Acton
Richard Seelinger
Bob Hauser
Don Elias
Bill Gillen

DSD/vc:Hills-RR

EXHIBIT A

DRAFT PSD PERMIT MODIFICATION
FOR HILLSBOROUGH COUNTY RESOURCE RECOVERY FACILITY
(PSD-FL-104)

Page 1, Paragraph 3

This modification to Permit No. PSD-FL-104 addresses the increased emissions of nitrogen oxides and sulfuric acid mist from the stack at the resource recovery facility. It also addresses the particulate emissions from the ash residue facility and dust suppression baghouse. Except as expressly provided in the specific conditions contained herein, all of the other provisions of Permit No. PSD-FL-104 remain in effect.

Specific Conditions

- 1. Specific Condition 1.a.(5) in Permit No. PSD-FL-104 establishes an emission limitation for nitrogen oxides. It is modified to read as follows:
 - (5) Nitrogen Oxides: 0.34 gr/dscf-12%, or 6.4 lb/ton, whichever is more restrictive.
- 2. Specific Conditions 1.a.(9) and 1.b.(2)i concerning sulfuric acid mist emission limitations and compliance test requirements are deleted.
- 3. Pursuant to Rule 17-2.700(3)d, FAC, a standard of 5% opacity is hereby set for the minor particulate source control equipment/baghouse (i.e., the ash residue building dust suppression system). The compliance test requirements for the ash handling facility will be waived in accordance with Rule 17-2.700(3)d, FAC.

DSD/vc:Hills-RR2 Copied: CHF/BT Barry andrews } 8/12/87mg ATTACHMENT 5

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CG DEN WAFTIN STOTLING OF HILLSBOROUGH INC.

40 LANE HOAD CN 2615 PAIRPIELD, NEW JERSEY 0,007-2010 (201) 882-9000



DER

AUG 17 1987

TELECOPIED & SENT FEDERAL EXPRESS

August 14, 1987

HC-0918L C-1005

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

Re: Permit No. PSD-FL-121

Expiration Date: March 31, 1988

County:

Hillsborough

Project:

Hillsborough County Resource

Recovery Facility

Dear Mr. Fancy:

Ogden Martin Systems of Hillsborough, Inc. (OMSH) offers the following comments regarding the technical evaluation and preliminary determination in the draft permit to increase the allowable nitrogen oxides, sulfuric acid mist, and particulate emissions from the Resource Recovery Facility in Hillsborough County, Florida. Under Section I, of the Technical Evaluation and Preliminary Determination titled "Introduction," in paragraph two, OMSH would suggest changing the first sentence to read as follows:

On May 1, 1987, Hillsborough County through Ogden Martin Systems of Hillsborough, Inc., applied to DER to increase the allowable nitrogen oxides (NO_x), and sulfuric acid mist emissions at the Hillsborough County ERF.

OMSH would similarly suggest changing the last sentence on the first page to read:

Subsequently, on June 16, 1987, Hillsborough County through Ogden Martin Systems of Hillsborough, Inc., submitted an application to operate/construct dust suppression equipment that was added to the final design of the ash handling building to ensure that there would be no visible emissions from this plant area.

Mr. C. H. Fancy, P.E. August 14, 1987 Page Two

On the second page of the Introduction, OMSH would suggest deleting paragraph one in its entirety, since the wording is somewhat misleading. The paragraph refers to "the proposed project" whereas the project has been completed. The existing project consists of three boilers. The fourth boiler may or may not be added in the future; but, in any event, it has nothing to do with the original permit or any modification to date. If the paragraph is not deleted in its entirety, it is suggested that the second sentence of the paragraph be changed to read as follows:

A future plant expansion could increase the total solid waste processing capacity of the plant to 1600 TPD.

Under Section IV, captioned "BACT Determination," OMSH would propose changing the second sentence of the first paragraph to read as follows:

The ERF is designed to burn up to 1200 tons per day (TPD) of refuse at a heating value of 4500 BTU's per pound, which amount will increase or decrease, respectively, based upon lower or higher heating values, in each case, resulting in an electrical generating capacity of 29 megawatts.

The reason for this suggested change is that it more adequately reflects the burning capabilities of the facility, inasmuch as tonnage put through the unit decreases with higher heating value, and increases with lower heating value. The new recommended language more accurately reflects the capacity.

In the second paragraph under part IV, at the top of the page, it is recommended that the word "modified" be inserted in front of PSD.

Under Part V, captioned "Air Quality Analyses" in the subsection captioned "Analysis of Existing Air Quality," there is a major typographical error in the last paragraph in line two. The second sentence of the last paragraph should read"

This value (1 ug/m 3)

Our copy has an ll instead of a l. The value is correct in Table V-2, but needs to be corrected in the explanatory comments.

Mr. C. H. Fancy, P.E. August 14, 1987 Page 3

OMSH recommends that paragraph three of the first page of the permit itself be reworded to segregate particulates from nitrogen oxides and sulfuric acid mist, in order to reflect that these pollutants are emitted from different parts of the plant. It is recommended that the first sentence be reworded to read as follows:

This permit modification pertains to the increases of nitrogen oxides and sulfuric acid mist from the stack and the emission of particulates from the ash residue dust suppression baghouse.

The second sentence of the third paragraph on the first page of the permit needs to be reworded to reflect acceptance of the increased emissions for sulfuric acid mist. As the second sentence presently reads, only specific conditions 1.a.(3), 1.b., and 1.c.(1), are being modified. None of these sections deals with emissions of sulfuric acid mist. Since the third sentence states that all conditions other than the specific conditions addressed in paragraph two remain unchanged, the combination of the second and third sentences does not reflect approval of the increase in sulfuric acid mist.

Sincerely,

J.R. Treshler

Senior Project Manager

JRT:hn

cc: Mr. Bill Thomas

ATTACHMENT 6

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET ATLANTA, GEORGIA 20365

SEP 1 1 1207

DER

SEP 1 8 1987

BAQM

4APT/APB-aes

Mr. C. H. Fancy, P.E., Deputy Chief Bureau of Air Quality Management Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32301-2400

Re: Hillsborough County PSD-FL-120

Dear Mr. Fancy:

This is to acknowledge receipt of your July 14, 1987, PSD preliminary determination modifying emissions limits for sulfuric acid mist and nitrogen oxides, and the addition of particulate emission limits for the newly proposed ash handling emission control equipment.

We concur with your determination and permit conditions as indicated. However, the determination should make clear that the significant net emissions increase in nitrogen oxides and sulfuric acid mist for which this source is undergoing PSD review are not the result of a physical change or change in operation at the facility. The "Rule Applicability" section of the determination should provide explanation that the increases are requested permit modifications due to an error in estimating emissions in the construction permit application and that permit modifications resulting in significant net emissions increases require the issuance of a PSD permit. Although this modification requires that a BACT determination be performed for nitrogen oxides and sulfuric acid mist, the determination may consist of the previous BACT determination contained in the original EPA issued PSD permit without further evaluation of present BACT determinations (e.g. acid gas controls). This allowance is made due to the fact that emissions increases are not a result of a physical change in the plant or its operation, and are not due to the failure of prescribed pollution control equipment required in the EPA issued PSD permit.

Please note that the FDER issued PSD permit (PSD-FL-120) will supersede the emission limits for nitrogen oxides and sulfuric acid mist, as contained in the original EPA issued PSD permit (PSD-FL-104). Once the FDER PSD permit is issued, the facility will no longer be required to meet the nitrogen oxides, and sulfuric acid emissions limits contained in the EPA PSD permit PSD-FL-104 for reasons cited in your final determination.

We request that you submit copies of the final determination, which will address our concerns above, and permit when they are issued. If you have any questions, you may contact me or Wayne J. Aronson of my staff at (404) 347-2864.

Sincerely,

Wapy arms / arty for Bruce P. Miller, Chief

Air Programs Branch

Air, Pesticides, and Toxics

Management Division

cc: Mr. Roger P. Stewart, Director
Hillsborough County Environmental
Protection Commission
1900 9th Avenue
Tampa, Florida 33605

Mr. William A. Gillen, Jr. P.O. Box 3324
Tampa, Florida 33601

Copiel: Clair January 3 9/21/87 (2)
Procup Barol 9/21/87

ATTACHMENT

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United States Department of the Interior FISH AND WILDLIFE SERVICE

MAILING ADDRESS: Post Office Box 25486 Denver Federal Center Denver, Colorado 80225 STREET LOCATION: 134 Union Blud. Lakewood, Colorado 80228

SEP 2 2 1987

DER SEP 28 1987 BAQM

Mr. Bill Thomas
Bureau of Air Quality Management
Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Dear Mr. Thomas:

We appreciate the opportunity to review and comment on the Technical Evaluation and Preliminary Determination for the proposed modification of the Prevention of Significant Deterioration permit for the Hillsborough County Resource Recovery facility. The Hillsborough County facility, located near Tampa, Florida, is approximately 80 km south of Chassahowitzka National Wildlife Refuge, a class I air quality area administered by the U.S. Fish and Wildlife Service. Although we do not expect resulting emission increases from the proposed permit modifications to significantly impact the air quality or air quality related values of the refuge, we have several comments regarding the proposed modifications. These comments are discussed in the enclosed technical review document.

If you have any questions regarding our comments please contact Wayne King of our Air Quality staff at 303-969-2806.

Sincerely,

Nelson B. Kverno Regional Director

Enclosure

copied:

B. Andrews

T. Roxers

P. Raval

F. Campbell, HCEPC

CHFIBT

Technical Review of the Hillsborough County Resource Recovery Facility Permit Modifications

The Hillsborough County Resource Recovery Facility (RRF) was originally granted a Prevention of Significant Deterioration (PSD) permit in July 1986 and consists of a mass burn boiler which can burn up to 1200 tons per day (TPD) of solid municipal waste. The Hillsborough County facility is located near Tampa, Florida, approximately 80 km south of Chassahowitzka National Wildlife Refuge, a class I air quality area administered by the U.S. Fish and Wildlife Service. The steam from the boiler would be sent to a turbine generator with a capacity of 29 megawatts (gross). Generated electricity would be transmitted to the Tampa Electric Company for distribution. Hillsborough County is now requesting an increase in the permitted nitrogen oxide (NO_X) and sulfuric acid mist (H₂SO₄) emission limitations. The permitted, requested, and resulting emission increases are as follows:

Pollutant	Permitted (TPY)*	Requested (TPY)	Increase (TPY)
$NO_{\mathbf{x}}$	657	1396	739
H ₂ SO ₄	17	306	289

*Tons Per Year

Based on the proposed emission increases, the requested modification of the Hillsborough County RRF permit constitutes a major modification of an existing major source and is subject to PSD review. Although we do not expect resulting emission increases from the proposed permit modifications to significantly impact the air quality or air quality related values of the refuge, we have several comments regarding the proposed modifications. These comments are discussed below.

The Hillsborough facility was initially issued a PSD permit which limited the emissions of NO $_{\rm X}$ and H $_2$ SO $_4$ to 0.16 grains per dry standard cubic foot (gr/dscf) and 0.0040 gr/dscf corrected to 12% CO $_2$, respectively. Hillsborough County's request to modify the NO $_{\rm X}$ and H $_2$ SO $_4$ emission limitations is based on test data that were unavailable at the time the permit was issued. Based on these data, Hillsborough County claims that they will be unable to meet the permitted NO $_{\rm X}$ and H $_2$ SO $_4$ levels. Consequently, Hillsborough County has proposed that the NO $_{\rm X}$ limitation be increased from 0.16 gr/dscf to 0.34 gr/dscf, and the H $_2$ SO $_4$ limitation be increased from 0.004 gr/dscf to 0.072 gr/dscf. The State of Florida has agreed to raise the NO $_{\rm X}$ limitation to 0.34 gr/dscf, or 6.4 lb NO $_{\rm X}$ /ton of refuse burned, whichever is more restrictive. For H $_2$ SO $_4$, the State is deleting the emission limitation altogether based on the recommendation by EPA Region 4 that because no acceptable test method exists for measuring H $_2$ SO $_4$ emissions from municipal solid waste incinerators, an emission limitation should not be specified in the permit.

Review of the $\mathrm{NO_X}$ emission test data provided by Hillsborough County shows that similar resource recovery facilities have $\mathrm{NO_X}$ concentrations similar to the preliminary test results at the Hillsborough County facility. For example, the Wurzburg facility tested at 318 ppm and the Stockholm facility tested at 311 ppm, compared to 327 ppm for the Hillsborough County facility. However, as a basis for the revised $\mathrm{NO_X}$ limitation, it appears Hillsborough County selected the permitted rate applicable to the Tulsa facility (404 ppm).

In addition, three other proposed mass burn resource recovery facilities, Broward South, Broward North, and Lake County, were recently permitted by the State of Florida at 5.0 lb $\mathrm{NO_X/ton}$ refuse burned. The 327 ppm concentration obtained from preliminary test results at the Hillsborough County facility converts to approximately 5.2 lb $\mathrm{NO_X/ton}$ of refuse burned, whereas the proposed 404 ppm limitation corresponds to 6.4 lb/ton. The proposed limitation for the Hillsborough County facility appears to be inconsistent with the preliminary test data from the facility and three other recent permitting decisions by the State which limited facilities to 5.0 lb/ton.

In conclusion, based on the information provided in the Technical Evaluation and Preliminary Determination for the modification of the Hillsborough County RRF permit, we recommend that the revised NO_{X} permit limit be based on (1) the preliminary test results of the Hillsborough facility of 5.2 lbs $\mathrm{NO}_{\mathrm{X}}/\mathrm{ton}$ refuse burned (327 ppm), or (2) the permitted NO_{X} emission limits set for the Broward South, Broward North and Lake County facilities (5.0 lbs $\mathrm{NO}_{\mathrm{X}}/\mathrm{ton}$ refuse burned). Another option available to the State is to leave the permit as it is until actual emission data from the facility are available. Rather than basing the revised NO_{X} limit on emissions data from other facilities or preliminary test results from the Hillsborough County facility, the State could wait until the Hillsborough facility achieves normal operation and conducts stack testing, and then modify the permit accordingly.

ATTACHMENT 8

Best Available Copy



ROGER P STEWART

DIRECTOR

1900 - 9th AVE TAMPA FLORIDA 33605

TELEPHONE (813) 272-5960

October 2, 1987

COMMISSION

RODNEY COLSON PAM IORIO RUBIN E PADGETT JAN KAMINIS PLATT HAVEN POE

Mr. Clair Fancy, P.E., Deputy Chief Florida Department of Environmental Regulation Bureau of Air Quality Management 2600 Blair Stone Road Tallahassee, FL 32399-2400

Husbraugh bundy RRF Proposed PSD Permit No. PSD-FL-121

Dear Mr. Fancy:

Thank you for still allowing our Agency the opportunity to comment on the Bireau's proposed permit for our county's resource recovery facility at Faulkenburg Road.

Dur comments on the proposed permit are as follows:

Proposed specific condition 1.b. states PM emissions from from the ash handling facility shall not exceed 1.63 pounds per hour. Furthermore, condition 1.c.(1) mentioned Method 5 requirements on this source are waived by limiting the emissions to 5% opacity pursuant to Section 17-2.700(3)(d), F.A.C..

We recommend the above statements be changed to read:

In accordance with Subsection 17-2.650(2)(c)11., b.,F.A.C., the maximum allowable emissions for the ash handling baghouse based on design flow of 9500 ACFM shall not exceed:

Pollutant. lbs/hr tons/yr Emission Limitation Particulate 2.44 10.7 0.03 gr/dscf Matter

Visible Emissions

None (visible emissions less than or equal to 5% opacity)

1.c.(1) Change last sentence of first paragraph to: "EPA Method 5 testing requirements on the ash handling baghouse exhaust shall be waived pursuant to Section 17-2.700(1)(d).6.,F.A.C."

DER

OCT 5 1987

BAOM

Add the following to Section II. A. 3. as 'd'.

This baghouse shall be tested for visible emissions within 30 days of issuance of this permit and annually thereafter. The DER Method #9 test interval on this source shall be thirty (30) minutes. Two copies of the test data shall be submitted to the Air Section of the Environmental Protection Commission of Hillsborough County within 45 days of testing.

The above conditions are being recommended to clearly indicate the source is in a non-attainment area for particulates. such, RACT requirements should be implemented. Furthermore, since no compliance test has yet been conducted on this baghouse, another sentence was added to require an annual Method 9 on the baghouse.

- 2. We recommend specific condition 9.b. be revised to require the permittee to submit quarterly reports within a certain frame. Locally, we require all sources subject to 40 CFR to submit excess emissions reports no later than 30 days from the end of each calendar quarter. We recommend this same frame be used.
- Specific condition 8 indicates annual compliance testing requirements are required for particulate matter and opacity. The operating permit for City of Tampa's RTE facility requires annual compliance testing requirements for particulate matter, opacity, SD2, NOx, and lead. Due to the varying nature of garbage being burned, there is potential for SO2, NOx, and emissions to vary significantly from the results of the initial tests. Further, we feel it would be unfair to require different annual compliance tests between our two refuse to energy facilities. Both should have uniform testing requirements. recommend condition B include annual testing requirements SO2, NOx, and lead.

Your consideration of our input is appreciated. Please call or Jerry Campbell if you have any questions.

Sincerely

Victor San Agustin

Senior Air Permitting Engineer

Environmental Protection Commission

of Hillsborough County

Tradero Raval

Bill Thomas, CAPS/CHFICAP Barry Andrews, BAQM

Bill Thomas, SWFDER

State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION



Interoffice Memorandum

For Routing To Other Than The Addressee		
To:	Location:	
To:	Location:	
To:	Location:	
From:	Date:	

TO: Dale Twachtmann

THRU: Howard Rhodes

FROM: Clair Fancy

DATE: October 13, 1987

SUBJ: Approval of Hillsborough County Resource

Recovery Facility

Federal Permit Number: PSD-FL-121

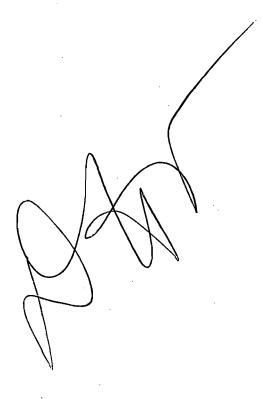
Attached for your approval and signature is a permit for the modification of a 1,200 ton per day resource recovery facility located at the permitted existing municipal solid waste resource recovery facility in Hillsborough County approximately two miles east of Tampa on the county's Faulkenburg Road site in Hillsborough County, Florida. There were comments received during the public notice period.

Day 90 after which these permits will be issued by default is December 11, 1987.

The Bureau recommends approval and signature.

CHF/MJ/s

attachment



The Judual Express aurbill 70- 676269086

the copy

10 (2 (92(2)) ROGER P. STEWART DIRECTOR

DIRECTOR

1900 - 9th AVE TAMPA, FLORIDA 33605

TELEPHONE (813) 272-5960

COMMISSION
RODNEY COLSON
PAM IORIO
RUBIN E. PADGETT
JAN KAMINIS PLATT
HAVEN POE
JAMES D. SELVEY
PICKENS C. TALLEY II

October 2, 1987

Mr. Clair Fancy, P.E., Deputy Chief Florida Department of Environmental Regulation Bureau of Air Quality Management 2600 Blair Stone Road Tallahassee, FL 32399-2400

RE: Proposed PSD Permit No. PSD-FL-121

Dear Mr. Fancy:

Thank you for still allowing our Agency the opportunity to comment on the Bureau's proposed permit for our county's resource recovery facility at Faulkenburg Road.

TY SECEDIEH CON

Our comments on the proposed permit are as follows:

1. Proposed specific condition 1.b. states PM emissions from from the ash handling facility shall not exceed 1.63 pounds per hour. Furthermore, condition 1.c.(1) mentioned Method 5 requirements on this source are waived by limiting the emissions to 5% opacity pursuant to Section 17-2.700(3)(d), F.A.C..

We recommend the above statements be changed to read:

1.b. In accordance with Subsection 17-2.650(2)(c)11., b.,F.A.C., the maximum allowable emissions for the ash handling baghouse based on design flow of 9500 ACFM shall not exceed:

<u>Pollutant</u> Particulate Matter <u>lbs/hr</u> 2.44 tons/yr

Emission Limitation 0.03 gr/dscf

Visible Emissions

None (visible emissions less than or equal to 5% opacity)

1.c.(1) Change last sentence of first paragraph to: "EPA Method 5 testing requirements on the ash handling baghouse exhaust shall be waived pursuant to Section 17-2.700(1)(d)6.,F.A.C."

DER

OCT 5 1987

BAQM

-coal-	USE THIS AIRBILL FOR DON FILL OUT PURPLE AREAS. F	MESTIC SHIPMENTS AI FOR ASSISTANCE, CALI	ND FOR SHIPMENTS F 800-238-5355 TOLL	ROM PUERTO RICO TO THE U.S.A. FREE.	
EXPRESS. SE	SEE BACK OF FORM SET FO NDER'S FEDERAL EXPRESS ACCOUNTY	IT NUMBER	DATE	17	
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Street Address /4/0 M. 2/57 Statistical City 7/1/1/2	FILE C	,	بتايين المتعادا	The control value of P.O. P. P. O. P. D. O. P. D. O. P. D. O. P. D. Selva D. P. D. D. P. D.	State
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Add the following to Section II, A, 3. as 'd'.

This baghouse shall be tested for visible emissions within 30 days of issuance of this permit and annually thereafter. The DER Method #9 test interval on this source shall be thirty (30) minutes. Two copies of the test data shall be submitted to the Air Section of the Environmental Protection Commission of Hillsborough County within 45 days of testing.

The above conditions are being recommended to clearly indicate the source is in a non-attainment area for particulates. such, RACT requirements should be implemented. Furthermore. since no compliance test has yet been conducted on this baghouse, another sentence was added to require an annual Method 9 on the baghouse.

- We recommend specific condition 9.b. be revised to require the permittee to submit quarterly reports within a certain time frame. Locally, we require all sources subject to 40 CFR to submit excess emissions reports no later than 30 days from the end of each calendar quarter. We recommend this same frame be used.
- Specific condition 8 indicates annual compliance testing requirements are required for particulate matter and opacity. The operating permit for City of Tampa's RTE facility requires annual compliance testing requirements for particulate matter, opacity, SO2, NOx, and lead. Due to the varying nature of garbage being burned, there is potential for SO2, NOx, and emissions to vary significantly from the results of the initial tests. Further, we feel it would be unfair to require different annual compliance tests between our two refuse to energy facilities. Both should have uniform testing requirements. recommend condition 8 include annual testing requirements for SO2, NOx, and lead.

Your consideration of our input is appreciated. Please call or Jerry Campbell if you have any questions.

Sincerely

Victor San Agustin

Senior Air Permitting Engineer

Environmental Protection Commission

of Hillsborough County

Pradeux Raval

Bill Thomas, CAPS/CHFICARS / 10/5/87 Barry Andrews, BARM

Bill Thomas, SWFDER

OGDEN MARTIN SYSTEMSOF HILLSBOROUGH INC.

40 LANE ROAD CN 2615 FAIRFIELD, NEW JERSEY 07007-2615 (201) 882-9000



October 1, 1987

HC-0964L C-1005

Ms. Maggie Janes State of Florida Florida Dept. of Environmental Regulation 2600 Blair Stone Road Tallahassee, FL 32399-2400 DER OCT 2 1987 BAQM

Subject: Original Affadavit and Public Notice

Dear Ms. Janes:

Please find enclosed the original Affadavit and Public Notice as it appeared in the Tampa Tribune 7/19/87 for the Hillsborough County Solid Waste Energy Recovery Project PSD Permit.

We thank you for bringing this matter to our attention.

J. R. Treshler General Manager

Very truly yours

Project Development and Operations

JRT:hn Attachment

cc: File 5.1

AIRBILL NUMBER OUESTIONS? CALL 800-238-5355 TOLL FREE. TERRIS . VD CERBY LONG DEFINITIONS MS. MAGGIR JANES the angle of the Joseph stands the little of the standard of t in the attention to the same this the brosking Florida Dept. of Environmental Begulation ALL CLAIMS MADE BY YOU SHE REST DELL'A MED BY Street Address Exact Street Address (Use of P.O. Boxes or P.O. Sin Godes Will Delay Delivery And Result in Extra Charge.) 30-140-5-2011 2600 Blair Stone Road sord to reduce entre surse Bid Altostio "AD" LANK "RE THOM WORLD WAR MORE ZIP Street Address Zip Required 32999-2400 d treno state, adjusted by us. Tallahassos "Tellahassos "Tallahassos "Tallahassos" "Tallahassos "Tallahassos "Tallahassos "Tallahassos "Tallahassos "Tallahassos" "Tallahassos "Tallahassos "Tallahassos" "Tallahassos "Tallahassos "Tallahassos" "Tallahasso" "Tallahassos "Tallahassos" "Tallahassos "Tallahassos" "Tallahassos "Tall , HOLO FOR PICK-UP AT THIS FEDERAL EXPRESS LOCATION REPORT DEPENDENCE OF THE PROPERTY OF THE P Street Address (See Service Guide or Call 800-238-5355) liability for loss or damage to your package is limited to ance, but you may pay thirty cents for each additional \$1,000 in your may pay thirty cents for each additional \$1,000 in your pay the settlimus cheme. DELIVERY AND SPECIAL HANDLING FORES SERVICES
CHECK ONLY ONE BOX 230000 YOUR GECLARED PACHAGES mability for delays not equipped by mediagethe cost with PRIORITY 1 6 OVERNIGH LETTER * Curry Your Packagns 1 OVERNIGHT DELIVERY HOLD FOR PICK-UP deligner setti Emp. No. 20 July 10 10 10 DELIVER WEEKDAY LBS 3 DELIVER SATURDAY (Sees charge) Farally, we won't be liaute for loss, carnage mendita mutes [Courier-Pak Overnight Envelope* Third Party 2106 of Deliralities that published levings and section 4 DANGERDUS GODDS of Labour to Question Overnight Box A Street Address, salaro ons arrotato goldano, sentrollos o Cital 5 CONSTANT SURVEILLANCE SERVICE (CSS) Total Overnight Tube B San All San A VIE WON'T BE LIABLE IN ANY CASE FOR INCIDENTAL OF NOR! DENTE ISTOT DATAGES, WHETHER OR NOT WE KNEW THAT SUCH DAMAGES MIGHT BE BICURNED Addition of Declared Value Limit \$100° at Little 7, pt the same with Cityled) 101A4 01A103UState ECR & STANDARD AIR MAN TO MORE PROPERTY. Delivery not later than second business day 71 OTHER SPECIAL SERVICE TO No to Widship The highest declared value we allow is \$25,000, per package unless your package ratiges. 2 Don-Call Stop his assistance tempts and season formation of season formation of season and the season formation of season fo SERVICE COMMITMENT 8 🖂 Received By Sound solving them the service Guide Washington PRORITY 1 - Delivery is scheduled early next business morning in most locations. It may take two or more business days if the 9 SATURDAY PICK-UP PART #106001 FEC-S-751-1000 Date/Time Received FedEx Employee Number

Date/Time conFederal Express Use

HI Signature MI (13 [Vii 17

REVISION DATE

10/88 PRINTED U.S.A. GBFE

THE TAMPA TRIBUNE

Published Daily Tampa, Hillsborough County, Florida

State of Florida
County of Hillsborough

G. T. Gleason, who on oath says that newspaper published at Tampa in Hill	ore the undersigned authority personally appeared he is Controller of The Tampa Tribune, a daily sborough County, Florida; that the attached copy
	••••••
LEG	AL NOTICE
	OF FLORIDA DEPARTMENT OF
	CY ACTION ON PERMIT
APPLICATION	
was published in said newspaper in the	issues of
was paousited in said newspaper in the	
	JULY 19, 1987
Tampa, in said Hillsborough Count heretofore been continuously published and has been entered as second class Hillsborough County, Florida, for a petion of the attached copy of advertisen paid nor promised any person, firm, or refund for the purpose of securing newspaper.	d The Tampa Tribune is a newspaper published at cy, Florida, and that the said newspaper has d in said Hillsborough County, Florida, each day mail matter at the post office in Tampa, in said eriod of one year next preceding the first publicament; and affiant further says that he has neither recorporation any discount, rebate, commission or this advertisement for publication in the said
Sworn to and subscribed before me, this	$s : \stackrel{19th}{\dots} \dots day$
ofJULY	estil 87 Luc etc
(SEAL)	Notary Public, Stale of Florida
	My Commission Expires Nov. 23, 1990
	Bonded Thru Troy Fain - Insurance Inc.

ine application is available for public inspection during normal business hours 8:00 a.m. to 15:00 p.m. Monday through Friday except legal holiday, at:
Dept. of Environmental Regulation 7:501. Highway 301 North 7:501. Highway 30 Bur Stone Road Taliahasse, Florida 3:309 -2400

Hillsborough County Environmental Profection Commission 1410 N. 21st Street

Tampa, Florida 3:365

Any person may send written comments on the proposed dcilon to Mr. Bill Thomas at the Department's Taliahasse address. All comments mailed with 30 days of the publication of this incide will be considered in the Department's final determination. 3268

State of Fioria and Department of American Department of American Department of American Notice of Proposed Agency Section on Permit Application. The Department of Environmental Regulation of Notice of 15 Intention in Section 10 Intention of Proposed Agency Section 10 Intention of Proposed Agency Section 10 Intention of Intentio

THE TAMPA TRIBUNE

Published Daily Tampa, Hillsborough County, Florida

State of Florida County of Hillsborough

Before the undersigned authority personally appeared G. T. Gleason, who on oath says that he is Controller of The Tampa Tribune, a daily newspaper published at Tampa in Hillsborough County, Florida; that the attached copy of advertisement being a	
LEGAL NOTICE	
in the matter of STATE OF FLORIDA DEPARTMENT OF	
PROPOSED AGENCY ACTION ON PERMIT	
APPLICATION	
was published in said newspaper in the issues of	
JULY 19, 1987	
heretofore been continuously published in said Hillsborough County, Florida, each day and has been entered as second class mail matter at the post office in Tampa, in said Hillsborough 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 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.	
Sworn to and subscribed before me, this .19th day	
of THIV / 4D 10 07 . 0	
of JULY LISTE D. 10 87 D. Rucht	,)(/
(SEAL) Solution State of Florida My Commission Expires Nov. 23, 1990	,)(/

Department of the Environmental Regulation of Environmenta 32399-2400
Hillisborough County
Eriviranmental
Protection Commission
1410 N. 21st Street
Tampo, Florido 33405
Any person may send written comments on the proposed action to Mr. Bill Thomas of the Department's Tallohassee address. All comments mailed within 30 days of the publication of this notice will be considered in the Department's final determination.
3268 | 7719/87

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32399-2400



BOB MARTINEZ GOVERNOR DALE TWACHTMANN SECRETARY

October 1, 1987

Mr. Miguel Flores Chief, Permit Review and Technical Support Branch National Park Service-Air Post Office Box 25287 Denver, Colorado 80225

Dear Mr. Flores:

Hillsborough County Resource Recovery Facility RE: PSD-FL-121

Enclosed is a copy of the Intent to Issue (Public Notice for the above mentioned site which was published in the Tampa Tribune. If you have any questions, please call Barry Andrews or Tom Rogers at (904)488-1344 or write to them at the above address.

Sincerely,

Margaldet V. Janes

Planner

Bureau of Air Quality

Management

/mj

enclosure

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32399-2400



BOB MARTINEZ GOVERNOR DALE TWACHTMANN SECRETARY

October 1, 1987

Mr. Wayne Aronson Chief Program Support Section U.S. EPA, Region IV 345 Courtland Street, N.E. Atlanta, Georgia 30365

Dear Mr. Aronson:

RE: Hillsborough County Resource Recovery Facility PSD Permit: PSD-FL-121

Enclosed is a copy of the Intent to Issue (Public Notice) for the above metioned site which appeared in the Tampa Tribune. If you have any comments or questions, please contact Barry Andrews or Tom Rogers at the above address or at (904)488-1344.

Sincerely,

Margaret V. Janes

Planner

Bureau of Air Quality

Management

CHF/mj

enclosure

west Caldwell, N.J.

OGDEN MARTIN SYSTEMS OF HILLSBOROUGH INC.

40 LANE ROAD CN 2615 FAIRFIELD, NEW JERSEY 07007-2615 (201) 882-9000



File Cary

September 23, 1987

HC 0959L C-1005

Mr. Pradeep Raval State of Florida Dept. of Environmental Regulation 2600 Blair Stone Road Tallahassee, FL 32399-2400

Subject:

Hillsborough County Florida

Solid Waste Energy Recovery Project

Public Notice

Dear Mr. Raval:

Enclosed is a copy of the Public Notice published in the Tampa Tribune on July 19, 1987, as well as the notarized proof of publication prepared by the Tampa Tribune.

Please advise us if additional information in this regard will be needed.

Very truly yours,

Roy D. Simpson Site Supervisor

RDS:hn

copiel:

Pradery Raval
Barry Andrews
Tom Rogers
CHF/BT
EDA
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Mignel Flower, MPS } not copied yet (PN for correctness) SEP 28 1987

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Victor son a quotion -10/2/87000

THE TAMPA TRIBUNE

Published Daily Tampa, Hillsborough County, Florida

State of Florida County of Hillsborough

G. T. Gleason, who on oath says the newspaper published at Tampa in H	fore the undersigned authority personally appeared at he is Controller of The Tampa Tribune, a daily illsborough County, Florida; that the attached copy
TD	CAL NOMICE
· · · · · · · · · · · · · · · · · · ·	GAL NOTICE
n the matter of STATE	OF FLORIDA DEPARTMENT OF
	NCY ACTION ON PERMIT
APPLICATION	
vas publisnea in sala newspaper in in	he issues of
	JULY 19, 1987
veretofore been continuously publish and has been entered as second class Hillsborough County, Florida, for a join of the attached copy of advertishaid nor promised any person, firm, refund for the purpose of securing tewspaper.	nty, Florida, and that the said newspaper has sed in said Hillsborough County, Florida, each day is mail matter at the post office in Tampa, in said period of one year next preceding the first publicatement; and affiant further says that he has neither or corporation any discount, rebate, commission or g this advertisement for publication in the said
Sworn to and subscribed before me, th	19th day
fJULY	ISUL 87 Puc Oto
(SEAL)	Notary Public, State of Florida
-	My Commission Expires Nov. 23, 1990
	Bonded Thru Troy Fain - Insurance Inc.

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Administrative Heartree, Deportment of Administration 2009 Application Portrey, Telefonsce Principal 22099-2400, and hearting officer has been assigned, the perittion is to be filled with the Department's Office of General Coursel, 2009 Biodr Stone Road, Total 2009 Biodr Stone Road Total 2009 Biodress of Course to peritting to intervene within the clowed firm frame constitutes a wolver of any light such parison has to rejuest a theoring under Section 20.57. Fioriago Stones.

The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m. Monday through Friday, except legal holidays, at:

Deof. of Environmental Regulation Southwest District 7601 Highway 201 North Tompa, Florida 33510 Dept. of Environmental Regulation Bureau of Alar Quality Management 2000 Stair Stone Road Toliohassee, Florida 32399-2400 Hillsborough County Environmental Protection Commission 1416 N. 21st Street

en comments on the proposed diction to MV. Bill Thomsit the Department's Toliolosses address. All comments motied within 30 doys of the sublication of this notice will be considered in the Department's final determination. 1258. 17/19/87.



United States Department of the Interior FISH AND WILDLIFE SERVICE

MAILING ADDRESS: Post Office Box 25486 Denver Federal Center Denver, Colorado 80225 STREET LOCATION: 134 Union Blvd. Lakewood, Colorado 80228

SEP 2 2 1987

DER
SEP 28 1987
BAQM

Mr. Bill Thomas
Bureau of Air Quality Management
Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Dear Mr. Thomas:

We appreciate the opportunity to review and comment on the Technical Evaluation and Preliminary Determination for the proposed modification of the Prevention of Significant Deterioration permit for the Hillsborough County Resource Recovery facility. The Hillsborough County facility, located near Tampa, Florida, is approximately 80 km south of Chassahowitzka National Wildlife Refuge, a class I air quality area administered by the U.S. Fish and Wildlife Service. Although we do not expect resulting emission increases from the proposed permit modifications to significantly impact the air quality or air quality related values of the refuge, we have several comments regarding the proposed modifications. These comments are discussed in the enclosed technical review document.

If you have any questions regarding our comments please contact Wayne King of our Air Quality staff at 303-969-2806.

Sincerely,

Nelson B. Kverno

Enclosure

copied:

B. Andrews

T. Roxers

P. Raval

F. Canybell, HCEPC

C45/27

UNITED STATES DEPARTMENT OF THE INTERIOR

POST OFFICE BOX 25486
DENVER FEDERAL CENTER
DENVER, COLORADO 80225

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300



Costed Froder, Tom, Barn, & CHF/BT. Also, HCEPC- F. Compbell, PSD-FL-121





POSTAGE AND FEES PAII U.S. DEPARTMENT OF THE INTERIOR INT-423

une Bill Thomas
Bureau of air Quality Mgnt
Repartment of Environmental Reg
Deun Towers Ofice Building
2600 Blair Stone Road
Jallahassel, It 32319 2400

Technical Review of the Hillsborough County Resource Recovery Facility Permit Modifications

The Hillsborough County Resource Recovery Facility (RRF) was originally granted a Prevention of Significant Deterioration (PSD) permit in July 1986 and consists of a mass burn boiler which can burn up to 1200 tons per day (TPD) of solid municipal waste. The Hillsborough County facility is located near Tampa, Florida, approximately 80 km south of Chassahowitzka National Wildlife Refuge, a class I air quality area administered by the U.S. Fish and Wildlife Service. The steam from the boiler would be sent to a turbine generator with a capacity of 29 megawatts (gross). Generated electricity would be transmitted to the Tampa Electric Company for distribution. Hillsborough County is now requesting an increase in the permitted nitrogen oxide (NO $_{\rm X}$) and sulfuric acid mist (H $_{\rm 2}$ SO $_{\rm 4}$) emission limitations. The permitted, requested, and resulting emission increases are as follows:

<u>Pollutant</u>	Permitted (TPY)*	Requested (TPY)	Increase (TPY)
$NO_{\mathbf{x}}$. 657	1396	739
H ₂ SO ₄	17	306	289

*Tons Per Year

Based on the proposed emission increases, the requested modification of the Hillsborough County RRF permit constitutes a major modification of an existing major source and is subject to PSD review. Although we do not expect resulting emission increases from the proposed permit modifications to significantly impact the air quality or air quality related values of the refuge, we have several comments regarding the proposed modifications. These comments are discussed below.

The Hillsborough facility was initially issued a PSD permit which limited the emissions of NO_x and H_2SO_4 to 0.16 grains per dry standard cubic foot (gr/dscf) and $0.0\overline{0}40$ gr/dscf corrected to 12% CO_2 , respectively. Hillsborough County's request to modify the NO_x and H_2SO_4 emission limitations is based on test data that were unavailable at the time the permit was issued. these data, Hillsborough County claims that they will be unable to meet the Consequently, Hillsborough County has permitted NO_x and H_2SO_4 levels. proposed that the NO_X limitation be increased from 0.16 gr/dscf to 0.34 gr/dscf, and the H2SO4 limitation be increased from 0.004 gr/dscf to 0.072 gr/dscf. The State of Florida has agreed to raise the NO_X limitation to 0.34 gr/dscf, or 6.4 lb NO_x/ton of refuse burned, whichever is more restrictive. For H₂SO₄, the State is deleting the emission limitation altogether based on the recommendation by EPA Region 4 that because no acceptable test method exists for measuring H2SO4 emissions from municipal solid waste incinerators, an emission limitation should not be specified in the permit.

Review of the NO_{X} emission test data provided by Hillsborough County shows that similar resource recovery facilities have NO_{X} concentrations similar to the preliminary test results at the Hillsborough County facility. For example, the Wurzburg facility tested at 318 ppm and the Stockholm facility tested at 311 ppm, compared to 327 ppm for the Hillsborough County facility. However, as a basis for the revised NO_{X} limitation, it appears Hillsborough County selected the permitted rate applicable to the Tulsa facility (404 ppm).

In addition, three other proposed mass burn resource recovery facilities, Broward South, Broward North, and Lake County, were recently permitted by the State of Florida at 5.0 lb $\mathrm{NO_x}/\mathrm{ton}$ refuse burned. The 327 ppm concentration obtained from preliminary test results at the Hillsborough County facility converts to approximately 5.2 lb $\mathrm{NO_x}/\mathrm{ton}$ of refuse burned, whereas the proposed 404 ppm limitation corresponds to 6.4 lb/ton. The proposed limitation for the Hillsborough County facility appears to be inconsistent with the preliminary test data from the facility and three other recent permitting decisions by the State which limited facilities to 5.0 lb/ton.

In conclusion, based on the information provided in the Technical Evaluation and Preliminary Determination for the modification of the Hillsborough County RRF permit, we recommend that the revised NO_{X} permit limit be based on (1) the preliminary test results of the Hillsborough facility of 5.2 lbs $\mathrm{NO}_{\mathrm{X}}/\mathrm{ton}$ refuse burned (327 ppm), or (2) the permitted NO_{X} emission limits set for the Broward South, Broward North and Lake County facilities (5.0 lbs $\mathrm{NO}_{\mathrm{X}}/\mathrm{ton}$ refuse burned). Another option available to the State is to leave the permit as it is until actual emission data from the facility are available. Rather than basing the revised NO_{X} limit on emissions data from other facilities or preliminary test results from the Hillsborough County facility, the State could wait until the Hillsborough facility achieves normal operation and conducts stack testing, and then modify the permit accordingly.

We request that you submit copies of the final determination, which will address our concerns above, and permit when they are issued. If you have any questions, you may contact me or Wayne J. Aronson of my staff at (404) 347-2864.

Sincerely,

Waping armon / arting for Bruce P. Miller, Chief

Air Programs Branch

Air, Pesticides, and Toxics

Management Division

cc: Mr. Roger P. Stewart, Director Hillsborough County Environmental Protection Commission 1900 9th Avenue

Tampa, Florida 33605

Mr. William A. Gillen, Jr. P.O. Box 3324

Tampa, Florida 33601

Copiel: Clair James 3 9/21/87 (2)
Proclip Raval 9

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION IV

345 COURTLAND STREET ATLANTA, GEORGIA 30365

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300
AIR-4

SEP 14'87 U.S. OFFICIAL MAIL

SEP 14'87 U.S. POSTAGE

SEP 14'8 U.S. POSTAGE

SEP

Mr. C. H. Fancy, P.E., Deputy Chief Bureau of Air Quality Management Twin Towers Office Building 2600 Blair_Stone-Road Tallahassee, FL 32301-2400

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Anthodalistation attached all and and all

OGDEN MARTIN SYSTEMS OF HILLSBOROUGH INC.

40 LANE ROAD CN 2615 FAIRFIELD, NEW JERSEY 07007-2615 (201) 882-9000



TELECOPIED & SENT EEDERAL EXPRESS

August 14, 1987

HC-0918L C-1005 DER

AUG 17 1987

BAOM

Mr. C. H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality Management
State of Florida Department of
Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road

Tallahassee, Florida 32399-2400

Re: Permit No.

PSD-FL-121

Expiration Date:

March 31, 1988 Hillsborough

County: Project:

Hillsborough County Resource

Recovery Facility

Dear Mr. Fancy:

Ogden Martin Systems of Hillsborough, Inc. (OMSH) offers the following comments regarding the technical evaluation and preliminary determination in the draft permit to increase the allowable nitrogen oxides, sulfuric acid mist, and particulate emissions from the Resource Recovery Facility in Hillsborough County, Florida. Under Section I, of the Technical Evaluation and Preliminary Determination titled "Introduction," in paragraph two, OMSH would suggest changing the first sentence to read as follows:

On May 1, 1987, Hillsborough County through Ogden Martin Systems of Hillsborough, Inc., applied to DER to increase the allowable nitrogen oxides (NO $_{\rm X}$), and sulfuric acid mist emissions at the Hillsborough County ERF.

OMSH would similarly suggest changing the last sentence on the first page to read:

Subsequently, on June 16, 1987, Hillsborough County through Ogden Martin Systems of Hillsborough, Inc., submitted an application to operate/construct dust suppression equipment that was added to the final design of the ash handling building to ensure that there would be no visible emissions from this plant area.

Mr. C. H. Fancy, P.E. August 14, 1987 Page Two

On the second page of the Introduction, OMSH would suggest deleting paragraph one in its entirety, since the wording is somewhat misleading. The paragraph refers to "the proposed project" whereas the project has been completed. The existing project consists of three boilers. The fourth boiler may or may not be added in the future; but, in any event, it has nothing to do with the original permit or any modification to date. If the paragraph is not deleted in its entirety, it is suggested that the second sentence of the paragraph be changed to read as follows:

A future plant expansion could increase the total solid waste processing capacity of the plant to 1600 TPD.

Under Section IV, captioned "BACT Determination," OMSH would propose changing the second sentence of the first paragraph to read as follows:

The ERF is designed to burn up to 1200 tons per day (TPD) of refuse at a heating value of 4500 BTU's per pound, which amount will increase or decrease, respectively, based upon lower or higher heating values, in each case, resulting in an electrical generating capacity of 29 megawatts.

The reason for this suggested change is that it more adequately reflects the burning capabilities of the facility, inasmuch as tonnage put through the unit decreases with higher heating value, and increases with lower heating value. The new recommended language more accurately reflects the capacity.

In the second paragraph under part IV, at the top of the page, it is recommended that the word "modified" be inserted in front of PSD.

Under Part V, captioned "Air Quality Analyses" in the subsection captioned "Analysis of Existing Air Quality," there is a major typographical error in the last paragraph in line two. The second sentence of the last paragraph should read"

This value (1 ug/m^3) . . .

Our copy has an ll instead of a l. The value is correct in Table V-2, but needs to be corrected in the explanatory comments.

Mr. C. H. Fancy, P.E. August 14, 1987 Page 3

OMSH recommends that paragraph three of the first page of the permit itself be reworded to segregate particulates from nitrogen oxides and sulfuric acid mist, in order to reflect that these pollutants are emitted from different parts of the plant. It is recommended that the first sentence be reworded to read as follows:

This permit modification pertains to the increases of nitrogen oxides and sulfuric acid mist from the stack and the emission of particulates from the ash residue dust suppression baghouse.

The second sentence of the third paragraph on the first page of the permit needs to be reworded to reflect acceptance of the increased emissions for sulfuric acid mist. As the second sentence presently reads, only specific conditions l.a.(3), l.b., and l.c.(1), are being modified. None of these sections deals with emissions of sulfuric acid mist. Since the third sentence states that all conditions other than the specific conditions addressed in paragraph two remain unchanged, the combination of the second and third sentences does not reflect approval of the increase in sulfuric acid mist.

Sincerely

J.R. Treshler

Senior Project Manager

JRT:hn

cc: Mr. Bill Thomas

Copied: CHF/Bt

Barry Andrews

EXPERIE	QUESTIONS? CALL 80	0-238-5355 TOLL FREE.	<u> </u>	79586071
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

AUG 1 2 1987

345 COURTLAND STREET ATLANTA, GEORGIA 30365 DER

4APT-APB/eaw

AUG 1 4 1987

Mr. Clair Fancy, Deputy Chief Bureau of Air Quality Management Florida Department of Environmental Regulation 2600 Blair Stone Road Tallahassee, Florida 32399-2400 BAQM

Dear Mr. Fancy:

This is to confirm an August 5, 1987, telephone conversation between you and Mr. Wayne J. Aronson of my staff regarding his upcoming inspections of resource recovery facilities in the Tampa and Miami, Florida areas. The following schedule and list of facilities to be visited have been discussed with the appropriate local agency contacts:

August 24, 1987 - Pinellas County Resource Recovery Facility (RRF)

- McKay Bay RRF

- Hillsborough County RRF

August 25, 1987 - City of Lakeland

- Dade County RRF

August 26, 1987 - Palm Beach County RRF

If you have any questions regarding these upcoming inspections, please feel free to contact me or Wayne J. Aronson at (404) 347-2864.

Sincerely yours,

boner f. Meller

Bruce P. Miller, Chief

Air Programs Branch

Air, Pesticides, and Toxics

Management Division

cc: Mr. Iwan Choronenko

Hillsborough County Environmental

Protection Commission

Mr. Patrick Wong

Dade County Environmental

Planning Division

Mr. Peter Hessling

Pinellas County Department of

Environmental Management

Mr. E. J. Sacco

Palm Beach County Health Department

Copudi CHE/BT Barry andrews } 8/17/87

PM 8.11.87 Delahasser, Fr the Copy

CARLTON, FIELDS, WARD, EMMANUEL, SMITH, CUTLER & KENT, P. A.

ATTORNEYS AT LAW

ONE HARBOUR PLACE
P. O. BOX 3239

TAMPA: FLORIDA 33601
(8)3) 223-7000

CNA BUILDING
P. O. BOX 1171

ORLANDO FLORIDA 32802

(305) 849-0300

200 EAST GOVERNMENT ST.
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PENSACOLA. FLORIDA 32582
(904) 434-0142

FIRST FLORIDA BANK BUILDING
P. O. DRAWER 190
TALLAHASSEE, FLORIDA 32302
(904) 224-1585

FLORIDA NATIONAL BANK TOWER
P. O. BOX 4700

JACKSONVILLE. FLORIDA 32201

(904) 354-1600

PLEASE REPLY TO:

August 11, 1987

Tallahassee

Hamilton S. Oven
Department of Environmental
Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

DER

AUG 1 2 1987

BAQM

Re: Hillsborough County resource recovery facility

PSD- FL-121

Dear Buck:

As you know, the Hillsborough County resource recovery facility was approved pursuant to the Florida Electrical Power Plant Siting Act (Act), Sections 403.501-.519, Florida Statutes. Hillsborough County needs to modify two conditions of the site certification pursuant to Section 403.516(2), Florida Statutes, by entering into a written agreement with the parties to the site certification process.

The specific changes in the conditions of site certification deal with air pollution issues. Those changes already have been tentatively approved by the DER Bureau of Air Quality Management and the U.S. Environmental Protection Agency.

We have prepared a draft Stipulation and Agreement for approval by the Department, Southwest Florida Water Management District, Department of Community Affairs, and Public Service Commission. If the draft agreement is acceptable, I would like the Department's counsel to sign the agreement and then I will circulate it to the other agencies for their signature. When I have received the approval of all of the appropriate agencies, I will bring the agreement back to you for submittal to the Governor and Cabinet, sitting as the Siting Board.

P4 8-10-87 Tallonossee, F

the copy

CARLTON, FIELDS, WARD, EMMANUEL, SMITH, CUTLER & KENT, P. A.

ATTORNEYS AT LAW

ONE HARBOUR PLACE
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(904) 224-1585

P. O. BOX 4700 JACKSONVILLE. FLORIDA 32201 (904) 354-1600

FLORIDA NATIONAL BANK TOWER

AUG 1 1 1987

PLEASE REPEATO ON

August 10, 1987

Tallahassee

Clair H. Fancy
Deputy Chief
Bureau of Air Quality Management
Department of Environmental
Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Re: Hillsborough County resource recovery facility; DER File No. PSD-FL-121

Dear Mr. Fancy:

This law firm represents Hillsborough County in the above-referenced case. On behalf of Hillsborough County, we are submitting the following comments concerning the Intent to Issue, Technical Evaluation, Preliminary Determination and draft permit issued by the Department of Environmental Regulation (DER) on July 14, 1987.

For the purposes of this submittal, words which have been underlined should be added to the draft document. Words which have been stricken should be deleted.

Intent to Issue

Page 1, paragraph 2, should state that the County applied for a permit modification for "particulate emissions from the existing refuse to energy facility "

Technical Evaluation and Preliminary Determination

l. Page 1, paragraph 1. Hillsborough County believes that its first PSD permit was properly issued pursuant to the Florida Electrical Power Plant Siting Act. The County does not agree

Hamilton Oven Page Two August 11, 1987

Please call me after you have had an opportunity to review this draft stipulation.

Sincerely,

David S. Dee

Dan Thompson cc: Richard Donelan Barry Andrews

Dan Fernandez (SWFWMD) Ed Curren (SWFWMD) Larry Keesey (DCA) Mike Twomey (PSC)

Joe Mount Daryl Smith Joe Treshler Bill Gillen

DSD/vc:OVEN

Copiel: Barry Ondreus) CHP/187



Department of Environmental Protection

Lawton Chiles Governor Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Virginia B. Wetherell Secretary

January 19, 1995

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Daryl H. Smith, Director Department of Solid Waste Hillsborough County Post Office Box 1100 Tampa, Florida 33601

Dear Mr. Smith:

Re: Hillsborough County Solid Waste Energy Recovery Facility

Amendment to PSD-FL-121(A) Site Certification No. 83-19

The Department is in receipt of your letter dated July 8, 1994, requesting an amendment to the facility description (page 1) and Specific Condition No. 3 of the above referenced PSD permit. The Bureau has evaluated your request and approves the following:

Description (page 1) PSD-FL-121(A):

FROM:

For the modification of a 1200 tons per day resource recovery facility located at the permitted existing municipal solid waste resource recovery facility in Hillsborough County approximately two miles east of Tampa on the county's Faulkenburg Road site. The UTM coordinates of the plant are 368.2 Km E and 3092.7 Km N.

TO:

For the modification of the resource recovery facility located at the permitted existing municipal solid waste resource recovery facility in Hillsborough County approximately two miles east of Tampa on the county's Faulkenburg Road site. The UTM coordinates of the plant are 368.2 Km E and 3092.7 Km N.

Specific Condition No. 3:

FROM:

The boilers shall not be loaded in excess of their rated capacity of 36,666 pounds per hour each.

Mr. Daryl H. Smith Amendment to PSD-FL-121(A) January 19, 1995 Page Two

TO:

The incinerator boilers shall not be loaded in excess of their rated capacity of 36,666 pounds per hour each, equivalent to 1320 tons per day total, but no more than 1200 tons per day on an annual average basis.

Compliance with the 1200 tons per day annual average charging rate shall be determined on a 52-week rolling average based on the weight of solid waste received and processed at the facility. The truck weigh scale records shall be used for this purpose.

A copy of this letter shall be attached to the above mentioned permit and shall become a part of the permit.

Sincerely,

Howard L. Rhodes

Director

Division of Air Resources

Management

HLR/TH/bjb

Attachment to Be Incorporated:

Mr. Daryl H. Smith's letter of July 8, 1994.

cc: Jewell Harper, EPA
Bill Congdon, OGC
Bill Thomas, SWD
Hamilton Oven, PPS
Jerry Campbell, EPCHC
John Bunyak, NPS



Receipt for Certified Mail No Insurance Coverage Provided Do not use for International Mail (See Reverse)

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Final Determination

Hillsborough County Solid Waste Energy Recovery Facility Hillsborough County, Florida

File No: PSD-FL-121(A)

Department of Environmental Protection Division of Air Resources Management Bureau of Air Regulation

January 19, 1995

Final Determination

Hillsborough County Solid Waste Energy Recovery Facility PSD-FL-121(A) and Site Certification No. 83-19

The permit amendment to Hillsborough County Department of Solid Waste Energy Recovery Facility was distributed on October 10, 1994. This facility consists of three incinerator boilers. This permit amendment did not change the intent of the previously issued PSD permit nor did it result in an increase of emissions. The Notice of Intent To Issue was published in The Tampa Tribune on October 20, 1994. Copies of the permit amendment evaluation were available for inspection at the office of the Environmental Protection Commission of Hillsborough County and the Department of Environmental Protection's offices in Tampa and Tallahassee.

No comments were submitted during the public notice period.

The final action of the Department is to issue the permit amendment as noted during the public notice period.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32399-2400



BOB MARTINEZ GOVERNOR DALE TWACHTMANN SECRETARY

PERMITTEE:
Hillsborough County
Hillsborough County Courthouse
419 Pierce Street
Tampa, Florida 33602

Permit Number: PSD-FL-121
Expiration Date: March 31, 1988
County: Hillsborough

Latitude/Longitude: 27° 57' 00" N 82° 40' 22" W

Project: Hillsborough County Resource Recovery Modification

This permit is issued under the provisions of Chapter $\frac{403}{17-2}$, Florida Statutes, and Florida Administrative Code Rule(s) $\frac{17-2}{17-2}$ and 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the modification of a 1,200 ton per day resource recovery facility located at the permitted existing municipal solid waste resource recovery facility in Hillsborough County approximately two miles east of Tampa on the county's Faulkenburg Road site. The UTM coordinates of the plant are 368.2 km E and 3092.7 km N.

This permit solely pertains to the pollutant increases (nitrogen oxides, sulfuric acid mist, and particulates) which result from this modification. Only Specific Condition No. 1 has been modified to reflect the changes requested in this modification. For clarity purposes, the remaining specific conditions which pertain to the pollutants addressed in this modification have been repeated as they appeared in the original PSD permit (PSD-FL-104) and also Specific Condition No. 11 has been added. The other pollutants emitted from this facility are addressed in the original PSD permit. This facility is not subject to any emission limitations or testing requirements for sulfuric acid mist. Except as expressly provided in the Specific Conditions contained herein, all of the other provisions of permit No. PSD-FL-104 remain in effect.

Attachments:

- 1. May 1, 1987, letter by Richard W. Seelinger.
- 2. June 8, 1987, letter by Bruce P. Miller, EPA Region IV.
- 3. June 12, 1987, letter by J. R. Treshler.
- 4. Letter from David Dee, attorney for Hillsborough County dated August 10, 1987.
- 5. Letter from Ogden Projects, dated August 14, 1987.

PERMITTEE: Hillsborough County

Permit Number: PSD-FL-121 Expiration Date: March 31, 1988

SPECIFIC CONDITIONS:

- b. Method 2 for determining stack gas flow rate when converting concentrations to or from mass emission limits.
- c. Method 3 for gas analysis when needed for calculation of molecular weight or percent ${\rm CO}_2$.
- d. Method 4 for determining moisture content when converting stack velocity to dry volumetric flow rate for use in converting concentrations in dry gases to or from mass emission limits.
- e. Method 5 for concentration of particulate matter and associated moisture content. One sample shall constitute one test run.
- f. Method 9 for visible determination of the opacity of emissions.
- g. Method 7E for concentration of nitrogen oxides.
- (3) The stack tests shall be performed at +10% of the heat input rate of 150 million Btu per hour per boiler; however, compliance with the particulate matter emission limit shall be at design capacity.
- 2. The height of the boiler exhaust stack shall not be less than 220 feet above ground level at the base of the stack.
- 3. The boilers shall not be loaded in excess of their rated capacity of 36,666 pounds per hour each.
- 4. The boilers shall have a metal name plate affixed in a conspicuous place on the shell showing manufacturer, model number, type waste, rated capacity and certification number.

Florida Department of **Environmental Protection**

TO:

Howard L. Rhodes

FROM:

Clair Fancy

DATE:

January 19, 1995

SUBJECT:

Approval of Construction Permit Amendment Hillsborough Co. Solid Waste Energy Recovery Facility

PSD-FL-121(A), PA 83-19

Attached is a letter prepared by the Bureau of Air Regulation that will amend the PSD permit for the Hillsborough County Solid Waste Energy Recovery Facility. This amendment is recommended for your approval and signature.

CF/pa

Attachment



Department of Environmental Protection

Lawton Chiles Governor Marjory Stoneman Douglas Building 3900 Commonwealth Boulevard Tallahassee, Florida 32399-3000

Virginia B. Wetherell Secretary

November 14, 1994

Mr. Daryl H. Smith, Director Department of Solid Waste Post Office Box 1110 Tampa, Florida 33601

Dear Mr. Smith:

The Department of Environmental Protection has reviewed your request for approval of an ash conditioning system as outlined in your letters dated August 9, 1994, and September 20, 1994. The location of the lime silo and bag filters to control fugitive emissions within the existing building should not significantly increase emission of particulates to the atmosphere. Accordingly, the Department has no objection to the proposed amendment to the plant operating system including the installation of the lime storage tank(s), bag filters, and lime injection piping for the purpose of conditioning the plants ash.

Please provide the this office, the Department's Southwest District Office and the Hillsborough County Environmental Protection Commission with a set of as built plans when the lime storage tank is installed and include a copy of design specifications for the bag filter for the lime storage tank. We would prefer that you use the Department's form entitled Permit to Construct an Air Pollution Source to provide the information.

Sincerely yours,

Hamilton S. Oven, P.E.

Administrator, siting Coordination Office

Clair Fancy, BAR Bill Thomas, SWD

cc:

Ben Kklra, EPC

DEP ROUTING AND TRANSMITTAL SLIP		
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YOUR SIGNATURE	RECEIVED	
DUE DATE	NOV 1 5 1994	
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DISCUSS WITH ME	Air Regulation	
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SET UP MEETING		
FOR YOUR INFORMATION	·	
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FOR YOUR FILES		
FROM:	DATE: 11-14-94 PHONE: 7-0472	

DEP 15-026 (12/93)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET ATLANTA, GEORGIA 30365

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SEP 1 8 1987

BAQM

4APT/APB-aes

Mr. C. H. Fancy, P.E., Deputy Chief Bureau of Air Quality Management Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32301-2400

Re: Hillsborough County PSD-FL-

Dear Mr. Fancy:

This is to acknowledge receipt of your July 14, 1987, PSD preliminary determination modifying emissions limits for sulfuric acid mist and nitrogen oxides, and the addition of particulate emission limits for the newly proposed ash handling emission control equipment.

We concur with your determination and permit conditions as indicated. However, the determination should make clear that the significant net emissions increase in nitrogen oxides and sulfuric acid mist for which this source is undergoing PSD review are not the result of a physical change or change in operation at the facility. The "Rule Applicability" section of the determination should provide explanation that the increases are requested permit modifications due to an error in estimating emissions in the construction permit application and that permit modifications resulting in significant net emissions increases require the issuance of a PSD permit. Although this modification requires that a BACT determination be performed for nitrogen oxides and sulfuric acid mist, the determination may consist of the previous BACT determination contained in the original EPA issued PSD permit without further evaluation of present BACT determinations (e.g. acid gas controls). This allowance is made due to the fact that emissions increases are not a result of a physical change in the plant or its operation, and are not due to the failure of prescribed pollution control equipment required in the EPA issued PSD permit.

Please note that the FDER issued PSD permit (PSD-FL-120) will supersede the emission limits for nitrogen oxides and sulfuric acid mist, as contained in the original EPA issued PSD permit (PSD-FL-104). Once the FDER PSD permit is issued, the facility will no longer be required to meet the nitrogen oxides, and sulfuric acid emissions limits contained in the EPA PSD permit PSD-FL-104 for reasons cited in your final determination.

November 9, 1994

Mr. Clair Fancy, Bureau Chief Bureau of Air Regulation Florida Department of Environmental Protection 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Subj: Lake County Resource Recovery Facility Permit No. PSD-FL-

Dear Mr. Fancy:

On October 10, 1994, the Department issued an Intent to Issue Permit Amendment to the Hillsborough County Department of Solid Waste for the Hillsborough County Resource Recovery Facility (PSD-F1-121(A)). The referenced amendment addressed, among other things, the way in which facility throughput was to be calculated for demonstrating compliance with permit conditions.

Ogden Martin Systems of Lake (a.k.a. NRG Recovery Group) is requesting a similar amendment, in order to eliminate confusion that has developed with the Central District compliance staff. Presented below is the proposed language for the requested amendment:

Specific Condition No. 1.b. currently reads:

"The maximum individual MWC throughput shall not exceed 288 tons per day, 120 million Btu per hour and 69,000 pounds steam per hour, (3-hour average)."

Proposed change to Specific Condition No. 1.h.:

"The maximum individual MWC throughput shall not exceed 288 tons per day, 120 million Btu per hour and 69,000 pounds steam per hour, (3-hour average). Steam flow shall be used as the surrogate parameter for demonstrating compliance with such hourly and daily charging limitations,"

Using steam flow as a surrogate measure is consistent with 40 CFR 60.58a subparagraph (h)(6)(i) and subpargraph (j)(1), the New Source Performance Standards pertaining to compliance and performance testing of Municipal Waste Combustors.

Your prompt attention to this matter is greatly appreciated.

CC Ogden Montin AC 35-116379, PSD FC-113 7/4/95



OGDEN MARTIN SYSTEMS OF HUNTSVILLE, INC. 5251 Triana Blvd. Huntsville, At. 35805 (205) 882-1019 - Phone (205) 880-0348 - FAX

FAX TRANSMISSION COVER SHEET

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HILLSBOROUGH COUNTY

Florida

Office of the County Administrator Frederick B. Karl

BOARD OF COUNTY COMMISSIONERS

Phyllis Busansky Joe Chillura Lydia Miller Jim Norman Jan Platt Ed Turanchik Sandra Wilson



November 4, 1994

Senior Assistant County Administrator Patricia Bean

Assistant County Administrators Edwin Hunzeker Cretta Johnson Jimmie Keel Robert Taylor

Mr. C. H. Fancy, P.E., Chief Bureau of Air Regulation 2600 Blair Stone Road Tallahassee, Florida 32399

RE:

DEP File No. PSD-FL-121 (A) Hillsborough County, Florida RECEIVED

NOV 10 1994

Bureau of Air Regulation

Dear Mr. Fancy:

On October 20, 1994, the Hillsborough County Department of Solid Waste (DSW) published the Notice of Intent to Issue Permit Amendment PSD-FL-121(A). The DSW did not receive any copies of petitions for an administrative proceeding (hearing) during the fourteen (14) day period following the publication of the public notice as was required by any potential petitioners.

The DSW is, therefore, proceeding with the implementation of the conditions of the permit amendment, PSD-FL-121(A), effective November 4, 1994 pursuant to the "Intent to Issue Permit Amendment".

Sincerely

Daryl H. Smith, Director Department of Solid Waste Hillsborough County, FL

Und H dy

DHS/tgs

xc: Susan Allan, County Attorney's Office

Thomas Smith, DSW Bill Thomas, FDEP Jerry Campbell, HCEPC John Burbridge, OMSH Fancy PSD



BOARD OF COUNTY COMMISSIONERS HILLSBOROUGH COUNTY, FLORIDA

Office of the County Attorney

Emeline C. Acton, County Attorney Ronald G. McCord, Chief Assistant Donald R. Odom, Chief Assistant Jennie Granahan Tarr, Chief Assistant Guilene F. Theodore, Chief Assistant John Dixon Wall, Chief Assistant Joseph Egozcue, Administrator



County Center 601 E. Kennedy Blvd. -- 27th Floor

> P.O. Box 1110 613) 272-5670

October 25, 1994

NOV 2 1994

RECEIVE

Bureau of Air Regulation

Department Bureau of Air Regulation 2600 Blair Stone Road Tallahassee, FL 32399-2400

Proof of Publication on Permit Amendment PSD-FL-121(A); Hillsborough County Department of Solid Waste/Daryl Smith

To Whom it May Concern :

Enclosed is an affidavit of the legal ad placed in the Tampa Tribune referencing the Notice of Intent to issue permit amendment PSD-FL-121(A).

If you have any further questions please do not hesitate to contact me at 272-5670. Thank You.

RECEIVED

NOV 2 1994

Sincerely,

Division of Air Resources Management

Paralegal, Municipal Services

CC: Susan Allan, Assistant County Attorney Daryl Smith, Director Dept. of Solid Waste

DEPARTMENT OF ENVIRONMENTAL PROTECTION

OCT 2 8 1994

Enclosures

OFFICE OF THE SECRETARY.

Ce: 9. Campbell, EPCHC
4. 74cmple, EPA
9. Dyingal, NPS An Affirmative Action/Equal Opportunity Employer
B. Cangdon, OEP
13. Cangdon, OEP
13. Langdon, Sw Dist
B. Thomas, Sw Dist

THE TAMPA TRIBUNE

Published Daily Tampa, Hillsborough County, Florida

State of Florida County of Hillsborough

Before the undersigned authority personally appeared R. Putney, who on oath says that he is Accounting Manager of The Tampa Tribune, a daily newspaper published at Tampa in Hillsborough County, Florida; that the attached copy of advertisement being a

LEGAL NOTICE
in the matter of
STATE OF FLORIDA
was published in said newspaper in the issues of
OCTOBER 20, 1994
Affiant further says that the said The Tampa Tribune is a newspaper published at Tampin said Hillsborough County, Florida, and that the said newspaper has heretofore been continuously published in said Hillsborough County, Florida, each day and has been enter as second class mail matter at the post office in Tampa, in said Hillsborough County, Florid for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that he has neither paid no: 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.
Sworn to and subscribed before me, this, A.D. 19

(SEAL)

Type of Identification Produced_

Personally Known or Produced Identification

Notary Public, State of Flor My comm. expiros Mar. 22, 1 INA S. KENNEDY

CC187791

3

If a petition is filed, the odministrative hearing process is designed to formulate agency action. Accordingly, the
Department's filinal action
may be different from the position taken by it in this Notice. Persons whose substantial interests will be affected
by any decision of the Department with regard to the application/request have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above
and be filled (received) within
14 days of publication of this
notice in the Office of General
Counsel at the above address of the Department. Failure to
petition 'within the 'allowed
time frame constitutes of
walvered any right such person has to request a hearing
under Section, 120.57, F.S. and
to participate as a party to
this proceeding. Any subsequent intervention will only be
at the above or
the president of the president
office upon motion filed
pursuant and approved of the president
proceeding and pursuant
proceeding and pursuant
proceeding office upon motion filed
pursuant and approved of the president
proceeding and procedure.

The application/request is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m. Monday through Friday, except legal holidays, at:

Department of Environmental Protection holidays, at:
Department of Environmental
Protection
Bureau of Air Regulation
111 S. Magnolia Drive, Suite 4
Tallahassee, Fiorida 32301
Department of Environmental
Protection
Southwest District
3804 Coconut Palm Drive
Tampa, Fiorida 33619-8218
Environmental Protection
Commission of
Hillisborough County
1410 N. 21st Street
Tampa, Fiorida 33605
Any person may send written comments on the proposed action to Mr. John
Brown of the Department's
Tallahassee address, All comments received within 14 days
of the publication of this notice will be considered in the
Department's final determination. 10/20/94

STATE OF FLORIDA
DEPARTMENT OF
ENVIRONMENTAL
PROTECTION
NOTICE OF INTENT
TO ISSUE PERMIT
AMENDMENT
AMENDMENT
PSD-F4-121(A)
The Department of Environmental Protection gives notice
of its intent to issue a permit
amendment to Mislaborough
County Department of Solid
Waste Energy Recovery Facility, P.O. Box 1110, Tampa,
Florida 33601. This facility
consists of three incinerator
bollers. This facility is located
0.6 miles north of State Route
60 between Faulkenburg
Road, and the TECO transmission line corridor in Tampa,
Hillsborough, County, Florida.
This permit amendment will
not change the intent of the
previously issued PSD permits
nor will it result in an increase
of emissions of the previously issued PSD permits
nor will it result in an increase
of emissions of the previously issued PSD permits
A person whose substantial

of emissions whose substantial interests are affected by the Department's proposed permitting decision, may petition for jan administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes (F. S.). The petition must be filed (received) in the Office of General Counsel of the Department of 2600 Blair Stone Road, Tallahasses, Florida 32399-2400, within 14 days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant of the oddress indicated above of the lime of filing, Failure to file a petition within this time period shall constitute a walver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information; (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the Department's action or proposed action; (d) A statement of the material facts disputed of the imaterial facts disputed

posed action (d) A statement of the imaterial tacts disputed by Petitioner; if any; (e) A statement of facts which petitioner contends warrant reversal or inhodification of the Departments action or proposed action; (f) A statement of which rules positioner contends require reversal or modification of the Department's action or proposed. san or modification or proposed oction; and, (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

BOARD OF COUNTY COMMISSIONERS RECEIVED HILLSBOROUGH COUNTY, FLORIDA RECEIVED OCT 19 1994

Office of the County Attorney

Emeline C. Acton, County Attorney

Ronald G. McCord, Chief Assistant

Donald R. Odom, Chief Assistant

Jennie Granahan Tarr, Chief Assistant

Guilene F. Theodore, Chief Assistant

October 14, 1994

Bureau of
Air Regulation

County Center
601 E. Kohnedy Blvd. -- 27th Floor

P.O. Box 1110 Tampa, Florida 33601 (813) 272-5670 Fax (813) 272-5231

Mr. C. H. Fancy, P.E., Chief Bureau of Air Regulation 2600 Blair Stone Road Tallahassee, Florida 32399

Re: Intent to Issue Permit Amendment

DEP File No. PSD-FL-121 (A)

Hillsborough County Resource Recovery Facility

Dear Mr. Fancy:

John Dixon Well, Chief Assistant Joseph Egozzue, Administrator

Hillsborough County is in receipt of the Department of Environmental Protection's Intent to Issue Permit Amendment in regard to the County's Resource Recovery Facility. It is the County's intent to publish the Notice of Intent as soon as possible.

There is one point which I would like to clarify. The Intent to Issue Permit Amendment refers to the application of Hillsborough County as being applied for "on July 13, 1994." However, the actual letter requesting the permit amendment from Hillsborough County is dated July 8, 1994, and is attached and referenced as the County's Application. The County will be proceeding on the basis that the County's letter requesting an amendment of July 8, 1994 is the letter being referenced in the Intent to issue Permit Amendment. It is possible that the July 13th date referred to is the date the County's July 8th letter was received by the Department of Environmental Protection.

If I am incorrect in this assumption, please let me know immediately, since the County will be publishing the Notice of Intent shortly and is proceeding on this understanding. Thank you for your cooperation.

Sincerely,

Masan M. Allan

Assistant County Attorney

SMA/ch

cc: Daryl Smith, Director, Department of Solid Waste

An Affirmative Action/Equal Opportunity Employer

Intent postage was the date that the Dynament received the golication / regnest.

She said that a letter response was not necessary.

R. Bruen Mitchell

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

CERTIFIED MAIL

In the Matter of an Application for Permit Amendment by:

DEP File No. PSD-FL-121(A)
Hillsborough County

Mr. Daryl H. Smith, Director Department of Solid Waste Hillsborough County Post Office Box 1100 Tampa, Florida 33601

INTENT TO ISSUE PERMIT AMENDMENT

The Department of Environmental Protection gives notice of its intent to issue a permit amendment (copy attached) for the proposed project as detailed in the letter specified above, for the reasons stated in the letter.

The applicant, Hillsborough County Department of Solid Waste, applied on July 13, 1994, to the Department of Environmental Protection for an amendment to their Solid Waste Energy Recovery Facility's permit located at Faulkenberg Road in Tampa, Hillsborough County, Florida.

The Department has permitting jurisdiction under the provisions of Chapter 403, Florida Statutes (F.S.), and Chapters 62-212 and 62-4, Florida Administrative Code (F.A.C.). The project is not exempt from permitting procedures. The Department has determined that a construction permit is required for the proposed work.

Pursuant to Section 403.815, F.S., and Rule 62-103.150, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Notice of Intent to Issue Permit Amendment. The notice shall be published one time only within 30 days in the legal ad section of a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, in the county where the activity is to take place. The applicant shall provide proof of publication to the Department's Bureau of Air Regulation, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within seven days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit amendment.

The Department will issue this permit amendment with the attached conditions unless a petition for an administrative

proceeding (hearing) is filed pursuant to the provisions of Section 120.57, F.S.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section The petition must contain the information set forth 120.57, F.S. below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the permit applicant and the parties listed below must be filed within 14 days of receipt of this intent. Petitions filed by other persons must be filed within 14 days of publication of the public notice or within 14 days of their receipt of this intent, whichever first occurs. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information;

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;

(b) A statement of how and when each petitioner received notice

of the Department's action or proposed action;

(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

(d) A statement of the material facts disputed by Petitioner,

if any;

- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and,
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Persons whose substantial interests will be affected by intent. any decision of the Department with regard to the application/ request have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this intent in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

C. H. Fancy, P.E., Chief Bureau of Air Regulation 2600 Blair Stone Road Tallahassee, Florida 32399 904-488-1344

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this INTENT TO ISSUE PERMIT AMENDMENT and all copies were mailed by certified mail before the close of business on 10/0/94 to the listed persons.

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to §120.52(11), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Copies furnished to:

Jerry Campbell, EPCHC Jewell Harper, EPA John Bunyak, NPS Hamilton Oven, PPS Bill Congdon, Esq., DEP Bill Thomas, SWD

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

NOTICE OF INTENT TO ISSUE PERMIT AMENDMENT

PSD-FL-121(A)

The Department of Environmental Protection gives notice of its intent to issue a permit amendment to Hillsborough County Department of Solid Waste Energy Recovery Facility, P. O. Box 1110, Tampa, Florida 33601. This facility consists of three incinerator boilers. This facility is located 0.6 miles north of State Route 60 between Faulkenburg Road, and the TECO transmission line corridor in Tampa, Hillsborough County, Florida. This permit amendment will not change the intent of the previously issued PSD permits nor will it result in an increase of emissions.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes (F.S.). The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information; (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the Department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by Petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and, (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this

Persons whose substantial interests will be affected by any decision of the Department with regard to the application/ request have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, Florida Administrative

The application/request is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Department of Environmental Protection Bureau of Air Regulation 111 S. Magnolia Drive, Suite 4 Tallahassee, Florida 32301

Department of Environmental Protection Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619-8218

Environmental Protection Commission of Hillsborough County 1410 N. 21st Street Tampa, Florida 33605

Any person may send written comments on the proposed action to Mr. John Brown at the Department's Tallahassee address. All comments received within 14 days of the publication of this notice will be considered in the Department's final determination.

Z 751 859 987

Receipt for Certified Mail
No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

	(566 11646136)	
	Mr. Daryl H. Sm:	ith
	Street and No. Post Office Box	
	P.O. State and ZIP Code Tampa, Florida	33601
	Postage	\$
	Certified Fee	
	Special Delivery Fee	
3	Restricted Delivery Fee	
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Marc	Return Receipt Showing to Whom, Date, and Addressee's Address	
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PS Form 3800, March 1993	Mailed: 10/10/9 PSD~FL-121(A)	4
PS		

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eted	Mr. Daryl H. Smith, Director	و مراهد الله	cle Number 751 859 987
Ē	Department of Solid Waste	4b. Ser	vice Type
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our RE	6. Signature (Agent)		
ls y	PS Form 3811, December 1991 *U.S. GPO: 1992-323	-402 DC	MESTIC RETURN RECEIPT



Department of Environmental Protection

Lawton Chiles Governor Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Virginia B. Wetherell Secretary

October 7, 1994



CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Daryl H. Smith, Director Department of Solid Waste Hillsborough County Post Office Box 1100 Tampa, Florida 33601

Dear Mr. Smith:

Re: Hillsborough County Solid Waste Energy Recovery Facility Amendment to PSD-FL-121(A)
Site Certification No. 83-19

The Department is in receipt of your letter dated July 8, 1994, requesting an amendment to the facility description (page 1) and Specific Condition No. 3 of the above referenced PSD permit. The Bureau has evaluated your request and approves the following:

Description (page 1) PSD-FL-121(A):

FROM:

For the modification of a 1200 tons per day resource recovery facility located at the permitted existing municipal solid waste resource recovery facility in Hillsborough County approximately two miles east of Tampa on the county's Faulkenburg Road site. The UTM coordinates of the plant are 368.2 KM E and 3092.7 Km N.

TO:

For the modification of the resource recovery facility located at the permitted existing municipal solid waste resource recovery facility in Hillsborough County approximately two miles east of Tampa on the county's Faulkenburg Road site. The UTM coordinates of the plant are 368.2 KM E and 3092.7 Km N.

Specific Condition No. 3:

FROM:

The boilers shall not be loaded in excess of their rated capacity of 36,666 pounds per hour each.

George Garage Comme

Printed on recycled paper.

Mr. Daryl H. Smith Amendment to PSD-FL-121(A) October 7, 1994 Page Two



TO:

The incinerator boilers shall not be loaded in excess of their rated capacity of 36,666 pounds per hour each, equivalent to 1320 tons per day total, but no more than 1200 tons per day on an annual average basis.

Compliance with the 1200 tons per day annual average charging rate shall be determined on a 52-week rolling average based on the weight of solid waste received and processed at the facility. The truck weigh scale records shall be used for this purpose.

A copy of this letter shall be attached to the above mentioned permit and shall become a part of the permit.

Sincerely,

Howard L. Rhodes Director Division of Air Resources Management

HLR/TH/bjb

Attachment to Be Incorporated:

Mr. Daryl H. Smith's letter of July 8, 1994.

cc: Jewell Harper, EPA
Bill Congdon, OGC
Bill Thomas, SWD

Hamilton Oven, PPS Jerry Campbell, EPCHC John Bunyak, NPS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E. ATLANTA, GEORGIA 30365 RECEIVED

SEP 2 2 1994

SEP 30 1994

4APT-AEB

Bureau of Air Regulation

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

SUBJ:

Hillsborough County Solid Waste Energy Recovery Facility (HCSWERF), PSD-FL-104 and PSD-FL-121

Dear Mr. Fancy:

As requested in your letter dated August 8, 1994, we have reviewed the Prevention of Significant Deterioration (PSD) permits and associated material for the above referenced facility. The original site certification application proposed the installation of four boilers, each with a nameplate charging capacity of 400 TPD of municipal solid waste (MSW). The capacity was based on an average BTU value of the waste. When the BTU value was lower than the average number, each boiler was capable of handling up to 440 TPD MSW (110% of nameplate). The application indicated that while short term operation may have a maximum charging rate of 440 TPD per boiler, the long term operation would correspond to an average of 400 TPD per boiler. Thus, we concur that your proposed permit amendments do not change the intent of the previously issued PSD permits, nor will they result in any additional emissions.

In response to your question as to whether the Florida Department of Environmental Protection (FDEP) or the Environmental Protection Agency (EPA) should issue the revised permit, the authority to take final action under the PSD regulations has been delegated to the State of Florida for sources subject to both the federal PSD regulations and the State's Power Plant Siting Act. Such authority includes revising previously issued PSD permits. The delegation of authority for full implementation of the federal PSD regulations was issued to the State of Florida on October 26, 1993.

Finally, in response to your question as to whether the permit revision should be public noticed, it is EPA's opinion that the permit revision should go through public notice procedures.

If you have any questions or need clarification on any of these comments, please contact Mr. Gregg Worley of my staff at $(404)\ 347-2904$.

Sincerely yours,

Winston A. Smith

Director

Air, Pesticides & Toxics Management Division



Department of Environmental Protection

Lawton Chiles Governor Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Virginia B. Wetherell Secretary

FAX TRANSMITTAL SHEET

TO: Ferry Campbell
DATE: 8-9-94 PHONE:
TOTAL NUMBER OF PAGES, INCLUDING COVER PAGE:
FROM: Bruce Mitchell
DIVISION OF AIR RESOURCES MANAGEMENT
DIVIDION OF AIR RESOURCES PANACEMENT
COMMENTS: Please call me to confirm that you recrived
readable copies, Also, clair said that he will
call you after his staff meeting this aim.
<u></u>
sc/274-1344
PHONE: 904-921-9506 direct FAX NUMBER: 904/922-6979
If there are any problems with this fax transmittal, please call the above phone number.

MESSAGE CONFIRMATION

AUG-09-'94 TUE 10:19

TERM ID:

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"Protect, Conserve and Manage Florida's Environment and Natural Resources"



Department of Environmental Protection



Lawton Chiles Governor Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Virginia B. Wetherell Secretary



August 8, 1994

Ms. Jewell Harper Air Enforcement Branch U.S. EPA, Region IV 345 Courtland Street, N.E. Atlanta, Georgia 30308

Dear Ms. Harper:

RE: HILLSBOROUGH COUNTY SOLID WASTE ENERGY RECOVERY FACILITY

(HCSWERF)

PSD-FL-104 & PSD-FL-121 - Site Certification No. 83-19

Attached please find a July 8, 1994, letter from HCSWERF requesting a revision of the PSD-FL-121 permit. In addition, we are also including a copy of the permit, issued by the Department on October 14, 1987.

All of the above permits have a specific condition that limit the hourly municipal solid waste (MSW) rate of each boiler incinerator to 36,666 pounds per hour. This hourly rate is equivalent to 1320 ton/day MSW feed rate. However, the PSD-FL-121 permit has a description (page 1) which states that the MSW feed rate of the facility is 1200 ton/day. That description seems to have originated with the Federal Register notice, enclosed, which was published when the region issued permit number PSD-FL-104.

This statement (1200 ton/day MSW rate limitation) has generated confusion between the regulated source and the Agency. We believe that the corrections drafted in the Department's response letter to HCSWERF will clarify the language of PSD-FL-121 permit without changing its intent.

Please advise by September 5, 1994 as follows:

- 1. Do you concur?
- 2. Should the Region IV or the Department issue the revision?
- 3. Should the revision be public noticed?

Ms. Jewell Harper August 8, 1994 Page Two

If you have any questions, please feel free to call me at (904) 488-1344 or write to me at the above address.

Sincerely,

C. H. Fancy, P.E.

Chief

Bureau of Air Regulation

CHF/TH/bjb

Attachment

B. Thomas, SWD cc:

J. Campbell, EPCHC

H. Oven, DEP
B. Congdon, Esq., DEP
J. Bunyak, NPS



Receipt for Certified Mail No Insurance Coverage Provided Do not use for International Mail (See Reverse)

	Sent to			
Jewell Harper				
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	345 Courtla	nd St., NE		
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	Atlanta, GA	30308		
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Department of Environmental Protection

Lawton Chiles Governor Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Virginia B. Wetherell Secretary

August XX, 1994

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Daryl H. Smith, Director Department of Solid Waste Hillsborough County Post Office Box 1100 Tampa, Florida 33601

Dear Mr. Smith:

RE: Hillsborough County Solid Waste Energy Recovery Facility

(HCSWERF)

PSD-FL-121A - Site Certification No. 83-19

The Department is in receipt of your letter dated July 8, 1994, requesting an amendment to the facility description (page 1) and specific condition No. 3 of the above referenced PSD permit. The Bureau has evaluated your request and approves the following:

Description (page 1) PSD-FL-121:

FROM:

For the modification of a 1200 tons per day resource recovery facility located at the permitted existing municipal solid waste resource recovery facility in Hillsborough County approximately two miles east of Tampa on the county's Faulkenburg Road site. The UTM coordinates of the plant are 368.2 KM E and 3092.7 Km N.

TC:

For the modification of the resource recovery facility located at the permitted existing municipal solid waste resource recovery facility in Hillsborough County approximately two miles east of Tampa on the county's Faulkenburg Road site. The UTM coordinates of the plant are 368.2 KM E and 3092.7 Km N.



Mr. Daryl H. Smith Letter Amendment to HCSWERF: PSD-FL-121A August XX, 1994 Page Two

Specific Condition No. 3:

FROM:

The boilers shall not be loaded in excess of their rated capacity of 36,666 pounds per hour each.

TO:

The incinerator boilers shall not be loaded in excess of their rated capacity of 36,666 pounds per hour each, equivalent to 1320 tons per day total, but no more than 1200 tons per day on an annual average basis.

Steam flow shall be used as a surrogate for hourly and daily charging rate limitations. The steam flow shall not exceed 98,388 pounds per hour per boiler based on a maximum heating value of 4,500 BTU/lb.

Compliance with the 1200 tons per day annual average charging rate shall be determined on a 52-week rolling average based on the weight of solid waste received and processed at the facility. The truck weigh scale records shall be used for this purpose.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the applicant of the amendment request/application and the parties listed below must be filed within 14 days of receipt of this amendment. Petitions filed by other persons must be filed within 14 days of the amendment issuance or within 14 days of their receipt of this amendment, whichever occurs first. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information:

(a) The name, address and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;

(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;



Mr. Daryl H. Smith Letter Amendment to HCSWERF: PSD-FL-121A August XX, 1994 Page Three

(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

(d) A statement of the material facts disputed by Petitioner, if

any;

(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or

proposed action;

(g) A statement of the relief sought by petitioner, stating precisely the action the petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Persons whose substantial interests will be affected by any decision of the Department with regard to the request/ application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this amendment in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

A copy of this letter shall be attached to the above mentioned permit and shall become a part of the permit.

Sincerely,

Howard L. Rhodes
Director
Division of Air Resources
Management

HLR/TH/bjb

Attachment to Be Incorporated:

Mr. Daryl H. Smith's letter of July 8, 1994

CC: Jewell Harper, EPA Hamilton Oven, PPS
Bill Congdon, OGC Jerry Campbell, HCEPC
Bill Thomas, SWD John Bunyak, NPS

RECEIVED

AUG 1 1991

7-29-94

Teresa,

Bureau of Air Regulation

Here is a copy of the PSD permit for Hillsborough RRF (PSD-FI-104). We do not have the actual signed cover page. I also sent a copy of the signed Federal Register notice.

Scott Davis

PBD-F1-104 ersuld July 1986

July 1994 Carrespondence

HILLSBOROUGH COUNTY ECEIVED

Florida

Office of the County Administrator Frederick B. Karl JUL 1 2 1994

Bureau of
Senial Aspense Corpey Administrator
Patricia Bean

Assistant County Administrators
Edwin Hunzeker
Cretta Johnson (Interim Appointment)
Jimmie Keel
Robert Taylor (Interim Appointment)

BOARD OF COUNTY COMMISSIONERS

Phyllis Busansky Joe Chillura Sylvia Kimbell Lydia Miller Jim Norman Jan Platt Ed Turanchik

July 8, 1994

Mr. Clair Fancy, Bureau Chief Bureau of Air Regulation Florida Department of Environmental Protection 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Subject:

Hillsborough County Solid Waste Energy Recovery Facility Permit No. PSD-FL-121

and Site Certification No. 83-19 - Permitted Capacity Issue

Dear Mr. Fancy:

On July 29, 1993, a representative from the Hillsborough County Environmental Protection Commission (EPC) visited the Hillsborough County Solid Waste Energy Recovery Facility (Facility) to conduct a regulatory inspection. As a result of the inspection, the EPC, on August 12, 1993, issued a warning notice to the Hillsborough County Department of Solid Waste (DSW) which alleged that the Facility was operating in a manner inconsistent with the terms of its PSD permit. Specifically, the warning notice alleged the Facility's failure to demonstrate compliance with the processing rate and the exceedance of a processing rate of 1,200 tons per day (TPD).

Following the issuance of the warning notice, several meetings were held with the EPC and the Florida Department of Environmental Protection (DEP) to discuss the warning notice. The DSW and its Facility operator, Ogden Martin Systems of Hillsborough, Inc. (OMSH), contend, with the support of legal counsel, that the Site Certification and the PSD permit allow the Facility to operate at a maximum daily throughput of 1,320 tons with an annual average capacity limitation of 1,200 TPD. This interpretation is consistent with the Site Certification and does not result in any increase in emissions.

However, in order to eliminate any similar confusion in the future, the DSW requests an amendment to PSD-FL-121 to clarify this interpretation so that it coincides with Site Certification No. 83-19. Presented below is the proposed language for the amendment to PSD-FL-121. The revised language is shown in bold.

Clair Fancy July 8, 1994 Page Two

1) Page 1 currently reads:

"For the modification of a 1,200 ton per day resource recovery facility..."

Amend to read:

"For the modification of the resource recovery facility..."

2) Page 8, Specific Condition No. 3 currently reads:

"The incinerator boilers shall not be loaded in excess of their rated capacity of 36,666 pounds per hour each."

Amend to read:

"The incinerator boilers shall not be loaded in excess of their rated capacity of 36,666 pounds per hour each, equivalent to 1,320 tons per day total, but no more than 1,200 tons per day on an annual average basis.

Steam flow shall be used as a surrogate for hourly and daily charging rate limitations. The steam flow shall not exceed 98,388 pounds per hour per boiler based upon the following:

4,500 Btu/lb waste x 36,666 lb waste/hr = 98,388 lb/hr Steam 1,677 Btu/lb Steam

Compliance with the 1,200 tpd annual average charging rate shall be determined on the basis of the 52-week rolling average weight of solid waste received and processed at the Facility. The truck weigh scale records shall be used for this purpose."

Using steam flow as a surrogate measure is consistent with 40 CFR Part 60.58a subparagraph (h)(6)(i) and subparagraph (j)(1), the New Source Performance Standards pertaining to compliance and performance testing of Municipal Waste Combusters.

Clair Fancy July 8, 1994 Page Three

Your prompt attention to this matter will be greatly appreciated as Hillsborough County has incurred substantial costs in operating the Facility in a manner consistent with EPC's interpretation of the processing rate. Since receiving the warning notice from the EPC, the County has diverted more than 16,000 tons of solid waste, with a corresponding loss in minimum gross electrical revenues of \$118,080. These figures represent losses necessitated by operating the Facility at the capacity limitation as interpreted by the EPC and do not include additional costs for disposal at the City of Tampa or Pasco County waste-to-energy facilities because of the diversions.

In spite of this economic burden, the County will continue to operate the Facility in a manner consistent with the EPC's interpretation until this matter is clarified.

Please advise should you have any questions concerning the requested amendment. You may contact either Thomas Smith at (813)276-2909 or myself at (813)276-2900 should you desire to discuss the matter further.

Sincerely,

Daryl H. Smith, Director Department of Solid Waste

DHS/tgs

XC:

Thomas Smith, DSW
Susan Allan, County Attorney's Office
Dan Strobridge, CDM
Joseph Treshler, OMSH
Jerry Campbell, EPC
Sara Fotopulos, EPC
John Brown, DEP
Hamilton Oven, DEP



Camp Dresser & McKee Inc.

consulting engineering construction operations 1715 North Westshore Boulevard, Suite 875 Tampa, Florida 33607 Tel: 813 281-2900 Fax: 813 288-8787



October 16, 1997

Ms. Teresa Heron, P.E.
Engineer, New Source Review Section
Florida Department of Environmental Protection
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

RECEIVED

OCT 2 0 1997

BUREAU OF
AIR REGULATION

Subject: Hillsborough County Retrofit Draft Permit Conditions

Dear Ms. Heron:

Enclosed is a disk containing the proposed permit conditions contained in Hillsborough County's application for a modification to its Power Plant Site Certification which will allow the construction of the air pollution control retrofit. The permit is a WordPerfect 6.0 file.

If you have any questions or comments, please do not hesitate to call me.

Sincerely,

CAMP DRESSER & McKEE INC.

Daniel E. Strobridge

Associate

cc: Thomas Smith, Hillsborough County

Martha Chumbler, Carlton Fields

Don Elias, RTP

TM.
UNITED STATES

Receipt for Certified Mail No Insurance Coverage Provided Do not use for International Mail (See Reverse)

[Sent to Mr. Daryl H. Smi	ith
	Street and No. Box 1100	
- [P.O., State and ZIP Code Tampa, FL 33601	
	Postage	\$
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PS Form 3800, JUNE 1991	Return Receipt Showing to Whom, Date, and Addressee's Address	
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on the reverse side	 SENDER: Complete items 1 and/or 2 for additional services. Complete items 3, and 4a & b. Print your name and address on the reverse of this form so the return this card to you. Attach this form to the front of the mailpiece, or on the back i does not permit. Write "Return Receipt Requested" on the mailpiece below the artiful Complete the receipt will show to whom the article was delivered and delivered. 		Receipt Service.
	3. Article Addressed to:	4a. Article Number	_
I ADDRESS completed	Mr. Daryl H. Smith, Director Department of Solid Waste Hillsborough County Post Office Box 1100 Tampa, FL 33601	Registered Insured Certified COD Express Mail Return Receipt for Merchandise 7. Date of Delivery	you tor using Keturn
our RETURN	5. Signature (Addressee) 6. Signature (Agent)	JAN 2 4 1995 8. Addressee's Address (Only if requested and fee is paid)	I Nank
ls yc	PS Form 3811 , December 1991 &U.S. GPO: 1992—323	DOMESTIC RETURN RECEIPT	



Department of Environmental Protection

Lawton Chiles Governor Marjory Stoneman Douglas Building 3900 Commonwealth Boulevard Tallahassee, Florida 32399-3000

Virginia B. Wetherell Secretary

November 14, 1994

Mr. Daryl H. Smith, Director Department of Solid Waste Post Office Box 1110 Tampa, Florida 33601

Dear Mr. Smith:

The Department of Environmental Protection has reviewed your request for approval of an ash conditioning system as outlined in your letters dated August 9, 1994, and September 20, 1994. The location of the lime silo and bag filters to control fugitive emissions within the existing building should not significantly increase emission of particulates to the atmosphere. Accordingly, the Department has no objection to the proposed amendment to the plant operating system including the installation of the lime storage tank(s), bag filters, and lime injection piping for the purpose of conditioning the plants ash.

Please provide the this office, the Department's Southwest District Office and the Hillsborough County Environmental Protection Commission with a set of as built plans when the lime storage tank is installed and include a copy of design specifications for the bag filter for the lime storage tank. We would prefer that you use the Department's form entitled Permit to Construct an Air Pollution Source to provide the information.

Sincerely yours,

Hamilton S. Oven, P.E. Administrator, siting

Hamilton S. Oven

Coordination Office

cc: Clair Fancy, BAR

Bill Thomas, SWD Ben Kklra, EPC

DEP RO	OUTING AND TRANSMITTAL SLIP
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PLEASE PREPARE REPLY FOR:	COMMENTS:
SECRETARY'S SIGNATURE	
DIV/DIST DIR SIGNATURE	
MY SIGNATURE	n ~
YOUR SIGNATURE	RECEIVED
DUE DATE	NOV 1 5 1994
ACTION/DISPOSITION	Bureau of
DISCUSS WITH ME	Air Regulation
COMMENTS/ADVISE	
REVIEW AND RETURN	
SET UP MEETING	
FOR YOUR INFORMATION	
HANDLE APPROPRIATELY	
INITIAL AND FORWARD	
SHARE WITH STAFF	
FOR YOUR FILES	
FROM:	DATE: 11-14-94 PHONE: 7-0472

77

DEP 15-026 (12/93)

THE TAMPA TRIBUNE

Published Daily Tampa, Hillsborough County, Florida

State of Florida County of Hillsborough

Before the undersigned authority personally appeared R. Putney, who on oath says that he is Accounting Manager of The Tampa Tribune, a daily newspaper published at Tampa in Hillsborough County, Florida; that the attached copy of advertisement being a

LEGAL NOTICE	
in the matter of	
STATE OF FLORIDA	
was published in said newspaper in the issues of	
OCTOBER 20, 1994	
Affiant further says that the said The Tampa Tribune is a newsp. in said Hillsborough County, Florida, and that the said newspaper h	

INA S. KENNEDY Notary Public, State of Florida y comm. expires Mar. 22, 1996 CC187791 Notary Public, ટ્રે



continuously published in said Hillsborough County, Florida, each day and has been entered as second class mail matter at the post office in Tampa, in said Hillsborough 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 has neither paid no; 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.

Sworn to and subscribed before me, this_

Personally Known_____ or Produced Identification_ Type of Identification Produced

(SEAL)

If a petition is flied, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application/request have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above to me proceeding. The petition must conform to the requirements specified above and be filled (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S. and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filled pursuant to Rule 28-5.207, Fiorida Administrative Code.

The application/request is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:
Department of Environmental Protection
Bureau of Air Regulation
111 S. Magnolia Drive, Suite 4
Tallahassee, Florida 32301
Department of Environmental Protection
Southwest District
3804 Coconut Paim Drive
Tampa, Florida 33319-8218
Environmental Protection
Commission of Commission of Hillsborough County 1410 N. 21st Street Tampa, Florida 33605

Tampa, Florida 33605
Any person may send written comments on the proposed action to Mr. John Brown at the Department's Tallahassee address. All comments received within 14 days of the publication of this notice will be considered in the Department's final determination. 10/20/94

STATE OF FLORIDA
DEPARTMENT OF
ENVIRONMENTAL
PROTECTION
NOTICE OF INTENT
TO ISSUE PERMIT
AMENDMENT
PSD-FL-121(A)

AMENIJMENT
PSD-FL-121(A)
The Department of Environmental Protection gives notice
of its Intent to Issue a permit
amendinent to Hissborough
County Department of Solid
Waste Energy Recovery Facility, P.O. Box 1110, Tampa,
Florida 33601. This facility
consists of three incinerator
boilers. This facility is located
0.6 miles north of State Route
60 between Faulkenburg
Road, and the TECO transmission line corridor in Tampa,
Hillsborough County, Florida.
This permit amendment will
not change the intent of the
previously issued PSD permits
nor will if result in an increase
of emissions. A person whose substantial

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes (F.S.). The petition must contain the information set forth below and must be filled (received) in the Office of General Counsel of the Department at 2600 Blair Stone Rood, Taliahassee, Florida 32399-2400, within 14 days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filling. Fallure to fille a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

(hearing) under Section (120.57, F.S.

The Petition shall contain the following information; (a) The name, address, and telephone number of each petitioner, the applicant's name tioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner, received notice of the Department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or pro-

posed action; (d) A statement of the material facts disputed by Petitioner, if any; (e) A statement of facts which petisystement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and, (g) A statement of the reliet sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action. proposed action.

Z 751 859 987



Receipt for Certified Mail
No Insurance Coverage Provided Do not use for International Mail (See Reverse)

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	Sent to Mr. Daryl H. Sm	ith			
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PS Form 3800, March 1993	Restricted Delivery Fee				
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on the reverse side?	SENDER: • Complete items 1 and/or 2 for additional services. • Complete items 3, and 4a & b. • Print your name and address on the reverse of this form so that return this card to you. • Attach this form to the front of the mailpiece, or on the back it does not permit. • Write "Return Receipt Requested" on the mailpiece below the artiel. • The Return Receipt will show to whom the article was delivered at delivered.	f space cle number. nd the date	I also wish to receive the following services (for an extra fee): 1. Addressee's Address 2. Restricted Delivery Consult postmaster for fee.	Receipt Service.
ADDRESS completed	Mr. Daryl H. Smith, Director Department of Solid Waste Hillsborough County Post Office Box 1100 Tampa, Florida 33601	Z 4b. Serv ☐ Regis XX Certi	cle Number 751 859 987 vice Type stered	sing Return
s your RETURN	5. Signature (Addressee) 6. Signature (Agent) PS Form 3811 , December 1991 *U.S. GPO: 1992–323	and f	essee's Address (Only if requested fee is paid) OMESTIC RETURN RECEIPT	Thank)

UNITED STATES POSTAL SERVICE

Official Business



PENALTY FOR PRIVATE USE TO AVOID PAYMENT OF POSTAGE, \$300



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OCT 17 Mint your name, address and ZIP Code here Patty Adams
Department of Environmental Protection Bureau of Air Regulation - MS 5505

Regula 2600 Blair Stone Road
Tallahassee, Florida 32399-2400

P 872 562 528



Receipt for Certified Mail No Insurance Coverage Provided Do not use for International Mail (See Reverse)

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	Jewell Harper				
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Teresa Heron July 25, 1994 Memorandum Page 3

Permit Limitation After Modification: 1320 TPD
Compliance Monitoring: 98,388 pounds of steam per hour per boiler using 4500 BTU per pound of waste

Scenario #1 - Actual Heat Content of Waste Burned is 4500 BTU per Pound

7,083,936 <u># steam</u> x <u>1677 BTU</u> x <u>Ton Waste</u> = 1320 <u>Tons Waste</u> day # steam 2000 # Waste day

Scenario #2 - Actual Heat Content of Waste Burned is 4000 BTU per Pound

7,083,936 # steam x 1677 BTU x Ton Waste = 1485 Tons Waste

day # steam 2000 # Waste day

4000 BTU

Waste

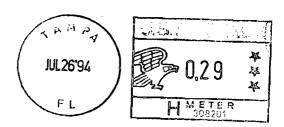
Under Scenario #2, the proposed compliance methodology fails to accurately quantify the amount of waste burned. While they would report they complied with a 1320 ton limitation, they would have exceeded this by 165 tons. In fact, they will exceed their limitation on a regular basis during the summer season when the heat content is lower.

5. We acknowledge that the EPA has proposed to use the 4500 BTU per pound figure and steam flows in their proposed NSPS. It is our understanding, however, that they are simply using it to characterize the incinerator's capacity—not as surrogate for daily throughput. We concur that steam flow may be a more practical means of monitoring the source's potential emissions, but we feel you must not accept a procedure which will routinely underpredicts the amount of waste burned.

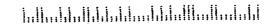
Thanks for the opportunity to provide input and please keep us advised.

Environmental Protection Commission of Hillsborough County

1900 9th Avenue Tampa, Florida 33605



Ms. Teresa Heron
Division of Air Resources Management
Florida Department of Environmental
Protection
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400



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RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED

NOT FOR INTERNATIONAL MAIL

(See Reverse)

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Put your address in the "RETURN TO" space on the reverse card from being returned to you. The return receipt fee water delivered to and the date of delivery. For additional fees postmaster for fees and check box(es) for additional serving. 1. Xishow to whom delivered, date, and addressee's additional delivered.	erse side. Failure to do this will prevent this vill provide you the name of the person the following services are available. Consult ce(s) requested.
3. Article Addressed to:	4. Article Number
Mr. Gary K. Crane	P 274 010 449
Ogden Martin Systems	C Type of Service:
40 Lane Road, CN 2615	Registered Insured
Fairfield, NJ.07007-2615	Express Mail
	Always obtain signature of addressee or agent and <u>DATE DELIVERED</u> .
5. Signature – Aderessee	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature Agent	
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7. Date of Delivery	7
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PS Form 381/1, Feb. 1986	DOMESTIC RETURN RECEIPT

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- Attach to front of article if space permits, otherwise affix to back of
- Endorse article "Return Receipt Requested" adjacent to number.

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Print your name, address, and ZIP Code in the space below.

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MAR 30 1988

PENALTY FOR PRIVATE USE, \$300

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Print Sender's name, Radras AQMP Code in the space below.

Department of Environmental Regulation Bureau of Air Quality Management 2600 Blair Stone Road

Tallahassee, FL 32399-2400

ATTN: M. JANES

OGDEN MARTIN SYSTEMS OF HILLSBOROUGH INC.

40 LANE ROAD CN 2615 FAIRFIELD, NEW JERSEY 07007-2615 (201) 882-9000 PM 8 March 1988 West Caldwell, NJ



RECEIVED

MAR 1 1 1988

DER - BAQM

March 7, 1988

Mr. Hamilton Oven
Florida Department of Environmental Regulation (DER)
2600 Blairstone Road
Talahassee, FL 32399-2400

Subject: Hillsborough County Resource Recovery Facility

PSD Renewal

As discussed on Thursday, March 3, 1988, please find attached various PSD related documents. Of particular concern is the letter on PSD Permit No. FL-121 which cites a March 31, 1988 expiration date for that permit, approving our reguested NO $_{\rm X}$ and H₂SO₄ limit modification. This letter is to request DER's confirmation of our conversation that no additional action is needed on Ogden's part to extend this PSD permit since the Florida Site Certification (as filed August 31, 1984) is effective for the life of the Facility. If any additional follow-up action is needed, please let me know at your earliest convenience as the March 31st date is rapidly approaching.

Please feel free to call me or Joe Treshler at (813) 684-5688 if you have any questions.

Sincerely yours,

OGDEN MARTIN SYSTEMS, INC. 201

Day K Cne

Gary K. Crane, Ph.D. Vice President

Environmental Permitting

GKC:sh Attachs.

cc: Clair H. Fancy, Florida DER (all w/attachs.)

J. Glen, OMS Hillsborough

J. Treshler, OMS Hillsborough

D. Strobridge, CDM

D. Smith, Hillsborough

T. Smith, Hillsborough

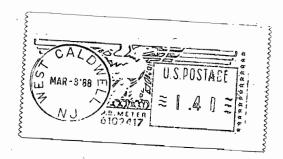
This is one of those

that heeded Sile Certification
and federal PSD permit.

They do not need opening permit

need to write him a letter
of plany this. Have engines

(Prolong) call them, call EPA
and check with Betzy and
draft fetter for my sig
by Friday march 25 th



first class

OGDEN MARTIN SYSTEMS, INC.

40 LANE ROAD CN 2615 FAIRFIELD, NEW JERSEY 07007-2615



AN OGDEN COMPANY

G. Crane

Clair II. Fancy Florida Department of Environmental Regulation (DER) 2600 Blairstone Road Talahassee, FL 32399-2400

tile Copy



2700,1987 Otlanta,GA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

NOV 2 1987

345 COURTLAND STREET ATLANTA, GEORGIA 30365

4APT/APB-am

DER

NOV 4 1987

BAQM

Mr. C. H. Fancy, P.E., Chief Bureau of Air Quality Management Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32301-2400

Re: Hillsborough County PSD-FL-120

Dear Mr. Fancy:

This is to acknowledge receipt of your October 14, 1987, PSD final determination for modifications at the above referenced facility. We have reviewed the changes made to the draft permits submitted to EPA on July 14, 1987, and find them to be in accordance to our recommendations of September 11, 1987. We, therefore, concur on your final determination and the permits issued to Hillsborough County.

We will retain copies of the determinations and permits for our records.

Sincerely yours,

Bruce P. Miller, Chief

Air Programs Branch

Air, Pesticides, and Toxics

me P. Miller

Management Division

Copied: CHFIRT

116187

Town Bodon

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET ATLANTA, GEORGIA 30365

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300

AIR-4



NOV-2'87

U.S. OFFICIAL MAIL

PENALTY U.S. POSTAGE

Mr. C. H. Fancy, P.E., Chief Bureau of Air Quality Management Twin Towers Office Building 2600 Blair Stone Road Tallahassee, FL 32301-2400

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P 274 007 666

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* RECEIPT FOR CERTIFIED WAIL
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NOT FOR INTERNATIONAL MAIL (See Reverse)

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PS	Fed. Permit: PSD-	FL-121						

8	SENDER: Complete item	s 1, 2, 3 and 4.						
Form 3811, July 1983 447-845	Put your address in the "RET reverse side. Failure to do this being returned to you. The requested the name of the person didelivery. For additional fees to available. Consult postmaster for service(s) requested.	s will prevent this card from turn receipt fee will provide elivered to and the date of the following services are						
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UNITED STATES POSTAL SERVICE

OFFICIAL BUSINESS

SENDER INSTRUCTIONS Print your name, address, and ZIP Code in the space below. Complete items 1, 2, 3, and 4 on the reverse. Attach to front of article if space permits, otherwise affix to back of article. Endorse article "Return Receipt Requested" adjacent to number.



PENALTY FOR PRIVATE USE, \$300



Department of Environmental Regulation Bureau of Air Quality Management

2600 Rlair Stone Road (No. and Street, Apt., Suite, P.O. Box or R.D. No.)

OCT 23 1987

Tallahassee, FL 32399-2400

(City, State, and ZIP Code)

ATTN: M. JANES

Judual Express

10 12182(3)

the Copy

ROGER P. STEWART DIRECTOR

1900 - 9th AVE TAMPA, FLORIDA 33605

TELEPHONE (813) 272-5960



COMMISSION
RODNEY COLSON
PAM IORIO
RUBIN E. PADGETT
JAN KAMINIS PLATT
HAVEN POE
JAMES D. SELVEY
PICKENS C. TALLEY ||

October 2, 1987

Mr. Clair Fancy, P.E., Deputy Chief Florida Department of Environmental Regulation Bureau of Air Quality Management 2600 Blair Stone Road Tallahassee, FL 32399-2400

Hulabraugh County RRF RE: Proposed PSD Permit No. PSD-FL-121

Dear Mr. Fancy:

Thank you for still allowing our Agency the opportunity to comment on the Bureau's proposed permit for our county's resource recovery facility at Faulkenburg Road.

PROTECTION

TSBOROUGH COUN

Our comments on the proposed permit are as follows:

1. Proposed specific condition 1.b. states PM emissions from from the ash handling facility shall not exceed 1.63 pounds per hour. Furthermore, condition 1.c.(1) mentioned Method 5 requirements on this source are waived by limiting the emissions to 5% opacity pursuant to Section 17-2.700(3)(d), F.A.C..

We recommend the above statements be changed to read:

1.b. In accordance with Subsection 17-2.650(2)(c)11., b.,F.A.C., the maximum allowable emissions for the ash handling baghouse based on design flow of 9500 ACFM shall not exceed:

Pollutant lbs/hr tons/yr Emission Limitation
Particulate 2.44 10.7 0.03 gr/dscf
Matter

Visible Emissions

None (visible emissions less than or equal to 5% opacity)

1.c.(1) Change last sentence of first paragraph to: "EPA Method 5 testing requirements on the ash handling baghouse exhaust shall be waived pursuant to Section 17-2.700(1)(d)6.,F.A.C."

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OGDEN MARTIN SYSTEMSOF HILLSBOROUGH INC.

40 LANE ROAD CN 2615 FAIRFIELD, NEW JERSEY 07007-2615 (201) 882-9000



October 1, 1987

HC-0964L C-1005

Ms. Maggie Janes State of Florida Florida Dept. of Environmental Regulation 2600 Blair Stone Road Tallahassee, FL 32399-2400 DER OCT 2 1987 BAQM

Subject: Original Affadavit and Public Notice

Dear Ms. Janes:

Please find enclosed the original Affadavit and Public Notice as it appeared in the Tampa Tribune 7/19/87 for the Hillsborough County Solid Waste Energy Recovery Project PSD Permit.

We thank you for bringing this matter to our attention.

A. R. Treshler General Manager Project Development

Project Development and Operations

JRT:hn Attachment

Very truly

cc: File 5.1

BEST AVAILABLE COPY

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OGDEN MARTIN SYSTEMS OF HILLSBOROUGH, INC.

40 LANE ROAD CN 2615 FAIRFIELD, NEW JERSEY 07007-2615



Ms. Maggie Janes Florida DER

Original Affadavit and Public Notice for Hillsborough County

THE TAMPA TRIBUNE

Published Daily Tampa, Hillsborough County, Florida

State of Florida County of Hillsborough

LEGAL NOTICE in the matter of STATE OF FLORIDA DEPARTMENT OF PROPOSED AGENCY ACTION ON PERMIT APPLICATION was published in said newspaper in the issues of TATALANDER TO STATE TO S
in the matter of STATE OF FLORIDA DEPARTMENT OF PROPOSED AGENCY ACTION ON PERMIT APPLICATION was published in said newspaper in the issues of TOTALLETTERMENT Affiant further says that the said The Tampa Tribune is a newspaper published at Tampa, in said Hillsborough County, Florida, and that the said newspaper has heretofore been continuously published in said Hillsborough County, Florida, each day and has been entered as second class mail matter at the post office in Tampa, in said Hillsborough 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 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
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Sworn to and subscribed before me, this 19th day of JULY State of Florida (SEAL) Notary Public, State of Florida
My Commission Expires Nov. 23, 1990

Ine application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m. Monday through Friday, except legal bulidays at: holidays, at: Dept. of Environmental Dept. of Environmental Regulation Southwest District 7601 Highway 301 North Tampa, Florida 33610 Dept. of Environmental Tampa, Florida 33610
Dept. of Environmental
Regulation
Bureau of Air
Quality Management
2600 Blair Stone Road
Tallohassee, Florida
32399-2400
Hillsborough County
Environmental
Protection Commission
1410 N. 21st Street
Tampa, Florida 33605
Any person may send written
comments on the proposed action to Mr. Bill Thomas at the Department's Tallohassee address. All comments
mailed with \$\frac{1}{2}\$ 30 days of the
publication of this notice will
be considered in the Department's final determination.
3268
7/19/87 7/19/87

State of Florida Department of Environmental Regulation Notice of Proposed Agency Action on Permit Application The Department of Environmental Regulation gives notice of its intent to issue a permit to Hillsborough Sounty to increase the allowable introgen oxides, sulfuric acid mist, and particulate emissions from their existing energy recovery (municipal solid waste incineration) facility. The facility is located in Hillsborough County, approximately two miles east of Tampa on the County's Folkenburg Road site. A defermination of best available control technology (BACT) was required. This application was rewiewed under Florida Administrative Code Rules 17-2.500, Prevention of Significant Deterioration. Emissions of natirogen oxides, sulfuric acid pmist, and particulates will increase by 739,289, and 7 tansper year, respectively. The allowable emissions of the other pollutants are not being increased. The Department has completed a study of the portential ambient air impact due to the increase in emissions. Bused on this study, the Department has reasonable assirance that the increase in emissions. Bused on this study, the Department has reasonable assirance that the increase in emissions. Bused on this study, the Department has reasonable assirance that the increase in emissions. Bused on this study of the portential ambient air quality standards for these pollutants. No PSD increment analysis is required for this modification.

Persons whose substantial interests are affected by the department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must con form to the requirements of chopters 17-103 and 28-5, Florida Administrative Code, and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair stone Road, Twin Towers Office Building, Taliahassee, Fl 32399-2400, within fourteen (14) days of publication of this notice. Failure fa file a request for hearing within this time perio

(nearing) under Section 120.57
Florida Stotutes
If a petition is filed, the ad
ministrative hearing process
Is designed to formulate agency action. Accordingly, the
Department's final action may
be different from the position
taken by it in this preliminary
statement. Therefore, persons
who may not object to the proposed agency action may
wish to intervene in the proceeding. A petition for intervention must be filed pursuant
to Model Rule 28-5.207 at least
five (5) days before the final
hearing and be filed with the
hearing officer if one has b
den assigned at the Division of
Administrative Hearings, De-

den assigned at the Division of Administrative Hearings, Department of Administration, 2009 Apalachee Parkway, Tallahassee, Florida 32399-2400. It in a hearing officer has been assigned, the petition is to be filled with the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Failure to petition to intervene within the allowed time frome constitutes a walver of any right such person has to request a hearing under Section 120.57, Florida Statutes.



United States Department of the Interior FISH AND WILDLIFE SERVICE

MAILING ADDRESS: Post Office Box 25486 Denver Federal Center Denver, Colorado 80225

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SEP 2 2 1987

DER ^{SEP 28} 1987 BAQM

Mr. Bill Thomas Bureau of Air Quality Management Department of Environmental Regulation Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Dear Mr. Thomas:

We appreciate the opportunity to review and comment on the Technical Evaluation and Preliminary Determination for the proposed modification of the Prevention of Significant Deterioration permit for the Hillsborough County Resource Recovery facility. The Hillsborough County facility, located near Tampa, Florida, is approximately 80 km south of Chassahowitzka National Wildlife Refuge, a class I air quality area administered by the U.S. Fish and Wildlife Service. Although we do not expect resulting emission increases from the proposed permit modifications to significantly impact the air quality or air quality related values of the refuge, we have several comments regarding the proposed modifications. These comments are discussed in the enclosed technical review document.

If you have any questions regarding our comments please contact Wayne King of our Air Quality staff at 303-969-2806.

Sincerely,

Nelson B. Kverno Regional Director

Enclosure

copied:

B. Andrews

T. Rogers

P. Rayal

F. Campbell, HCEPC

CHF/BT

Maysir,

Casted Producy, Tom,

Barry, & CHF/BT. Also,

HCEPC- F. Congbell,

PSO-FL-121

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DEPARTMENT OF THE INTERIOR

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un. Bill Thomas
Bureau of air Quality Mgmt.
Department of Environmental Reg
Devin Towers Ofice Building
2600 Blair Stone Road
Joellahassel, It 32319 2400

We request that you submit copies of the final determination, which will address our concerns above, and permit when they are issued. If you have any questions, you may contact me or Wayne J. Aronson of my staff at (404) 347-2864.

Sincerely,

Warn J. armsn / arting for Bruce P. Miller, Chief

Air Programs Branch

Air, Pesticides, and Toxics

Management Division

cc: Mr. Roger P. Stewart, Director
Hillsborough County Environmental
Protection Commission
1900 9th Avenue
Tampa, Florida 33605

Mr. William A. Gillen, Jr. P.O. Box 3324
Tampa, Florida 33601

Copies:

Clair James Barry andrews Proceup Caral

9/21/87

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REGION IV

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Mr. C. H. Fancy, P.E., Deputy Chief Bureau of Air Quality Management Twin Towers Office Building 2600_Blair_Stone_Road Tallahassee, FL 32301-2400

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Mr. C. H. Fancy, P.E. August 14, 1987 Page 3

OMSH recommends that paragraph three of the first page of the permit itself be reworded to segregate particulates from nitrogen oxides and sulfuric acid mist, in order to reflect that these pollutants are emitted from different parts of the plant. It is recommended that the first sentence be reworded to read as follows:

This permit modification pertains to the increases of nitrogen oxides and sulfuric acid mist from the stack and the emission of particulates from the ash residue dust suppression baghouse.

The second sentence of the third paragraph on the first page of the permit needs to be reworded to reflect acceptance of the increased emissions for sulfuric acid mist. As the second sentence presently reads, only specific conditions l.a.(3), l.b., and l.c.(1), are being modified. None of these sections deals with emissions of sulfuric acid mist. Since the third sentence states that all conditions other than the specific conditions addressed in paragraph two remain unchanged, the combination of the second and third sentences does not reflect approval of the increase in sulfuric acid mist.

Sincerely,

J.R. Treshler

Senior Project Manager

JRT:hn

cc: Mr. Bill Thomas

Copied: CHF/BT

Barry Andrews

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QUESTIONS? CALL 800-238-5355 TOLL FREE.

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LAWRENCE KEESEY, GENERAL COUNSEL
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BY:

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