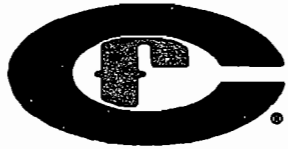


P.O. Drawer L.  
Plant City, Florida 33564-9007  
Telephone: 813/782-1591



**CF Industries, Inc.**

Plant City Phosphate Complex

August 11, 1999

**RECEIVED**

**AUG 12 1999**

**BUREAU OF AIR REGULATION**

Mr. John Reynolds MS 5505  
Bureau of Air Regulations  
2600 Blair Stone Road  
Tallahassee, FL 32399-2600

Subject: CF Industries, Inc. (CFI)  
Plant City Phosphate Complex  
Air Construction Permit Application (June 11, 1999)  
A & B Phosphoric Acid Units 10% Production Increases  
DEP File No.: 0570005-011-AC

Dear Mr. Reynolds:

Per your request the afternoon of August 11, 1999, concerning the subject permit application enclosed are the following documents:

- Copies of the 1998 compliance test reports for the A & B Phosphoric Acid Units;
- Copies of the 1999 compliance test reports for the A & B Phosphoric Acid Units conducted at the requested 10% production rate increases;
- One hard copy and one electronic copy of the Air Construction Permit submitted to the FDEP and HCEPC on June 11, 1999;
- One copy of the CFI response to the FDEP and HCEPC request for additional information dated July 8, 1999; and
- Copies of the A & B Phosphoric Acid Unit scrubber systems that include their dimensions.

You also asked for the fluoride concentration of the pond water used in the two open circuit scrubber systems (i.e., 0.90% F) at the time of the compliance tests performed in June of 1999.

If you have any other questions pertaining to this  
submittal please contact me at (813) 782-1591 ext. 290.

Sincerely,

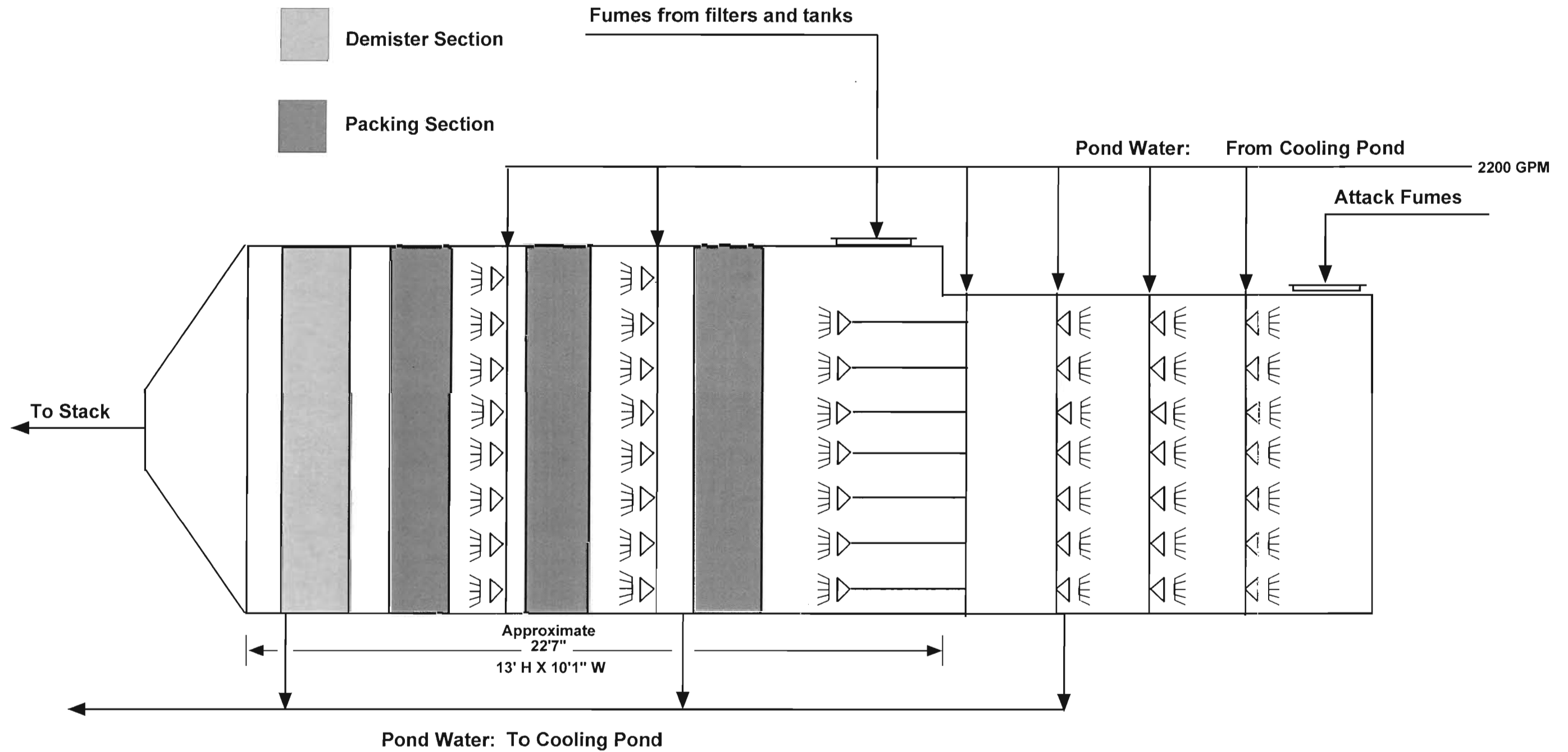
A handwritten signature in black ink, reading "J. Michael Messina". The signature is written in a cursive style with a large initial "J" and a long, sweeping underline.

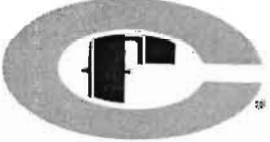
J. Michael Messina  
Chief, Environmental Services

U:/99A&BPAP4.doc  
JMM/gem

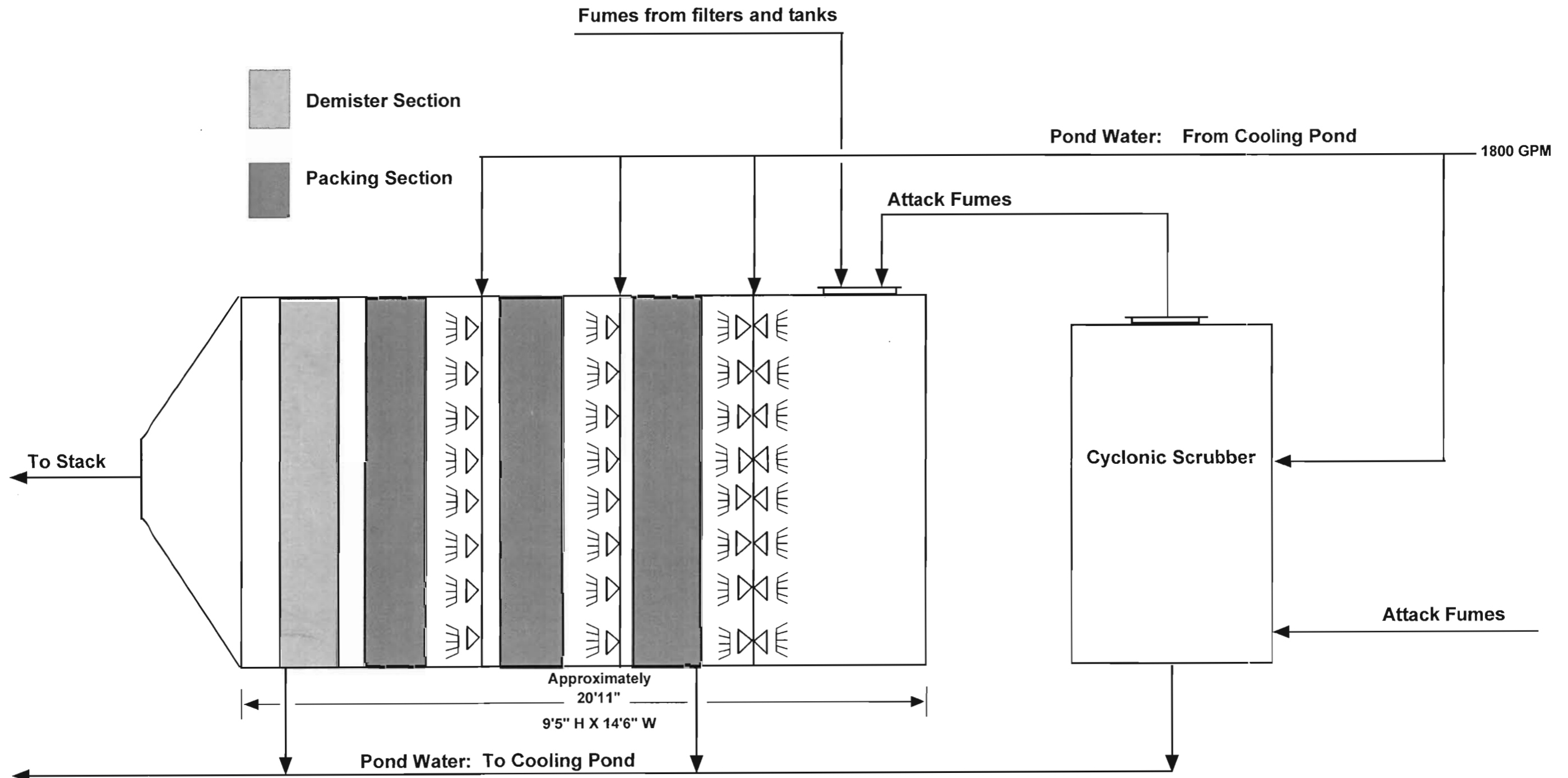
CC: w/o attachments:  
Gerald Kissel/FDEP  
Noel Morera/HCEPC  
T. A. Edwards

# "B" Phosphoric Acid Plant Fume Scrubber



Revision	By	Date	 Inc. Plant City Phosphate Complex P.O. Drawer L Plant City, Florida 33564 Phone: (813) 782-1591 Fax: (813) 788-9126	Title	DWR. NO
Figure 4	James Byrd	03/24/97		"B" Phosphoric Acid Plant Fume Scrubber	2.1-F-005
				BPAPSCR.B.WK4	

# "A" Phosphoric Acid Plant Fume Scrubber



Revision	By	Date	Inc.	Title	DWR. NO
Figure 4	James. Flyrd	03/27/97	Plant City Phosphate Complex P.O. Drawer L Plant City, Florida 33564 Phone: (813) 782-1591 Fax: (813) 788-9126	"A" Phosphoric Acid Plant Fume Scrubber	B-20-FW-020
					APAPSCR.B.WK4

## Appendix H-1, Permit History/ID Number Changes

CF Industries  
Plant City

FINAL Permit No.: 0570005-007-AV  
Facility ID No.: 0570005

**Permit History (for tracking purposes):**

<u>E.U. ID No.</u>	<u>Description</u>	<u>Permit No.</u>	<u>Issue Date</u>	<u>Final Expiration Date</u> <sup>1, 2</sup>	<u>Revised Date(s)</u>
001	Auxiliary Boiler	AC29-35256	11/19/80	02/28/91	
	Johnson Scotch Marine Type Boiler	AO29-196016	07/25/96	07/31/96	
002	"A" Sulfuric Acid Plant	AC29-146176	03/25/88	09/30/89	
		AO29-167061	09/28/89	09/29/94	
		AC29-200648	01/13/93	11/01/95	
		AO29-236551	04/13/95	02/11/99	10/22/96
		0570005-005-AC	10/22/96	12/31/96	
004	"A" Phosphoric Acid Plant	AC-73038	03/21/73	12/01/75	
		AC29-40086	05/04/81	08/15/81	
		AO29-200763	10/11/91	10/10/96	
		AC29-236879	12/20/93	12/30/93	
		AO29-232439	12/20/93	11/23/98	
		0570005-008-AC	07/28/97	06/24/99	
007	"C" Sulfuric Acid Plant	AC29-132155/ PSD-FL-119	07/88 (approx)	09/30/89	04/17/89
		AC29-186931/ PSD-FL-155	07/16/91	12/31/91	07/17/91
		AO29-167063	09/28/89	09/29/94	06/01/90, 08/14/90, 12/23/91

## Appendix H-1, Permit History/ID Number Changes

CF Industries  
Plant City

**FINAL Permit No.:** 0570005-007-AV  
**Facility ID No.:** 0570005

**Permit History (for tracking purposes):**

<u>E.U. ID No.</u>	<u>Description</u>	<u>Permit No.</u>	<u>Issue Date</u>	<u>Final Expiration Date</u> <sup>1, 2</sup>	<u>Revised Date(s)</u>
008	"D" Sulfuric Acid Plant	AC29-132157	05/25/88	12/30/89	
		AO29-167064	09/28/89	09/29/94	06/01/90, 08/13/90
		AC29-186931/ PSD-FL-155	07/16/91	12/31/91	
009	"B" Phosphoric Acid Plant	AC-73038	03/21/73	12/01/75	
		AO29-225960	06/04/93	03/30/98	
		0570005-009-AC	07/28/97	06/24/99	
010	"A" DAP/MAP Plant	AO29-225958	07/28/93	07/15/98	01/18/942 04/16/96
011	"Z" DAP/MAP Plant	AO29-225959 0570005-004-AC	07/28/93 06/20/96	07/15/98 12/31/99	01/18/94
012, 016, 021	"X" DAP/MAP/GTSP Plant	AO29-167059	09/28/89	09/29/94	12/15/89
		AC29-210979	10/23/92	12/30/93	
		AO29-167059/ AO29-167059A	09/28/89	09/29/94	12/17/93
		0570005-004-AC	06/20/96	12/31/99	

## Appendix H-1, Permit History/ID Number Changes

CF Industries  
Plant City

**FINAL Permit No.:** 0570005-007-AV  
**Facility ID No.:** 0570005

**Permit History (for tracking purposes):**

<u>E.U. ID No.</u>	<u>Description</u>	<u>Permit No.</u>	<u>Issue Date</u>	<u>Final Expiration Date</u> <sup>1, 2</sup>	<u>Revised Date(s)</u>
013, 017, 030	"Y" DAP/MAP/GTSP Plant	AC29-2471	08/10/76	01/31/77	
		AC29-165420	07/11/89	09/28/90	
		AO29-181935	11/14/90	09/24/95	07/31/91*, 07/31/95
		0570005-004-AC	06/20/96	12/31/99	
014	"A" & "B" Storage Buildings	AC29-2472	08/10/76	01/31/77	
		AO29-167370 & AO29-167370A	10/06/89	08/30/94	10/10/94, 12/27/94, 04/16/96
015, 018, 019, 020	"A" & "B" Storage, Sizing, and Shipping	AO29-137574	10/21/88	10/19/93	11/18/88, 07/01/93
		AO29-236314 & AO29-236314A	12/09/93	12/31/99	04/16/96
		AO29-170488	12/05/89	11/01/94	
022, 023, 024, 033	Molten Sulfur Storage and Handling	AC29-187327	04/10/92	12/01/92	
		AO29-216011 & AO29-216011A	09/29/92	10/01/97	07/02/94
		AC29-226648	06/11/93	12/31/94	
		AC29-167204	01/01/90	01/01/91	

\*Partial copy in SWD files

## Appendix H-1, Permit History/ID Number Changes

CF Industries  
Plant City

**FINAL Permit No.:** 0570005-007-AV  
**Facility ID No.:** 0570005

**Permit History (for tracking purposes):**

<u>E.U. ID No.</u>	<u>Description</u>	<u>Permit No.</u>	<u>Issue Date</u>	<u>Final Expiration Date</u> <sup>1, 2</sup>	<u>Revised Date(s)</u>
025	Rock Unloading and Storage	AC29-190636	04/22/91	03/10/93	
		AO29-197218	07/25/91	07/19/96	06/20/96
		0570005-003-AC	06/20/96	12/31/99	
026	Product Reclaim Handling System	AC29-190637	04/22/91	03/10/93	
		AO29-197219	07/25/91	07/19/96	08/12/93
027, 028, 029	"X", "Y", "Z" Rock Bins	AC29-190635	04/22/91	03/10/93	
		AO29-197217	07/25/91	07/19/96	
032	Phosphoric Acid Clean up	AC29-15261	02/27/79	05/01/81	
		AO29-185654	10/26/90	10/23/95	11/15/94
		0570005-006-AC	10/09/96	12/31/97	
034	Clay Unloading Bin	AC29-17333	03/28/79	05/01/81	
		AO29-185656	10/25/90	10/23/95	

Not included in this table: Operating permits issued prior to 1989, ownership transfers, and construction permit time extensions.



## Appendix H-1, Permit History/ID Number Changes

CF Industries  
Plant City

**FINAL Permit No.:** 0570005-007-AV  
**Facility ID No.:** 0570005

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### **ID Number Changes (for tracking purposes):**

**From: Facility ID No.:** 40HIL290005

**To: Facility ID No.:** 0570005

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**Table 1-1. Summary of Air Pollutant Standards and Terms**

CF Industries, Inc.

FINAL Permit No.: 0570005-007-AV

Facility ID No.: 0570005

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

J. ID No.	Brief Description
001	Johnson Scotch Marine Type Boiler
002	IAI Sulfuric Acid Plant

J. ID No.	Pollutant Name	Fuel(s)	Hours/Yr	Allowable Emissions			Equivalent Emissions*		Regulatory Citation(s)	See Perm Condition
				Standard(s)	lbs./hour	TPY	lbs./hour	TPY		
001	VE	Nat. gas, No. 2 Oil	N/A, 400 hr on No. 2 Oil	20% opacity except 40% for 2 min/hr	N/A	N/A	N/A	N/A	62-296.406(1), F.A.C.	III. A.3 & A.4
002	SO <sub>2</sub>		8,760	10 lbs/ton of 100% H <sub>2</sub> SO <sub>4</sub> , 303.3 lbs/hr (each hour), 238.3 lbs/hr (12 month avg) 1003 tons/yr (12 mo. avg.)	303.3	1003	303.3	1003	62-296.402, F.A.C.	III. B.3.
	H <sub>2</sub> SO <sub>4</sub> acid mist		8,760	1.43 lbs/hr (each hour), 0.83 lbs/hr (12 month avg) 3.49 tons/yr (12 mo. avg.)	1.43	3.49	1.43	3.49	62-296.402, F.A.C.	III. B.3.
	VE		N/A	10% opacity	N/A	N/A	N/A	N/A	62-204.800(7)(b)10, F.A.C. 40 CFR 60.83(a)(2) 62-296.402(1)(b)(2), F.A.C.	III. B.2.

Notes: \*The "Equivalent Emissions" listed are for informational purposes only.

N/A: Not Applicable      EBA: Established by Applicant

Table 1-1. Summary of Air Pollutant Standards and Terms

CF Industries, Inc.

FINAL Permit No.: 0570005-007-AV

Facility ID No.: 0570005

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

U. ID No.    Brief Description  
 003            IBI Sulfuric Acid Plant

U. ID No.	Pollutant Name	Fuel(s)	Hours/Yr	Allowable Emissions			Equivalent Emissions*		Regulatory Citation(s)	See Perm Condition
				Standard(s)	lbs./hour	TPY	lbs./hour	TPY		
003	SO <sub>2</sub>		8,760	10 lbs/ton of 100% H <sub>2</sub> SO <sub>4</sub> , 303.3 lbs/hr (each hour), 238.3 lbs/hr (12 month avg) 1003 tons/yr (12 mo. avg.)	303.3	1003	303.3	1003	62-296.402, F.A.C.	III. B.3.
	H <sub>2</sub> SO <sub>4</sub> acid mist		8,760	0.15 lbs/ton of 100% H <sub>2</sub> SO <sub>4</sub> , 1.43 lbs/hr (each hour), 0.83 lbs/hr (12 month avg) 3.49 tons/yr (12 mo. avg.)	1.43	3.49	1.43	3.49	62-296.402, F.A.C. 62-204.800(7)(b)10, F.A.C. 40 CFR 60.83(a)(1)	III. B.3.
	VE		N/A	10% opacity	N/A	N/A	N/A	N/A	62-204.800(7)(b)10, F.A.C. 40 CFR 60.83(a)(2) 62-296.402(1)(b)(2), F.A.C.	III. B.2.

Notes: \*The "Equivalent Emissions" listed are for informational purposes only.

N/A: Not Applicable      EBA: Established By Applicant

Table 1-1. Summary of Air Pollutant Standards and Terms

CF Industries, Inc.

FINAL Permit No.: 0570005-007-AV

Facility ID No.: 0570005

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

J.U. ID No.	Brief Description
007	[C] Sulfuric Acid Plant
008	[D] Sulfuric Acid Plant
004	[A] Phosphoric Acid Plant

J. ID No.	Pollutant Name	Fuel(s)	Hours/Yr	Allowable Emissions			Equivalent Emissions*		Regulatory Citation(s)	See Per Condition
				Standard(s)	lbs./hour	TPY	lbs./hour	TPY		
07, 008	SO <sub>2</sub>		8,760	4 lbs/ton of 100% H <sub>2</sub> SO <sub>4</sub> , 433 lbs/hr (each hour), 1898 tons/yr (12 mo. avg.)	433	1898	433	1898	62-296.402, F.A.C. 62-204.800(7)(b)10, F.A.C. 40 CFR 60.82(a)	III. B.3.
	H <sub>2</sub> SO <sub>4</sub> acid mist		8,760	0.15 lbs/ton of 100% H <sub>2</sub> SO <sub>4</sub> 16.25 lbs/hr (each hour), 71.2 tons/yr (12 mo. avg.)	1.43	3.49	1.43	3.49	62-296.402, F.A.C. 62-204.800(7)(b)10, F.A.C. 40 CFR 60.83(a)(1)	III. B.3.
	VE		N/A	10% opacity	N/A	N/A	N/A	N/A	62-204.800(7)(b)10, F.A.C. 40 CFR 60.83(a)(2) 62-296.402(1)(b)(2), F.A.C.	III. B.2.
	NO <sub>x</sub>		8,760	0.14 lbs/ton of 100% H <sub>2</sub> SO <sub>4</sub>	16.25	71.2	16.25	71.2	AC29-186931/PSD-FL-155	III. B.3.
4	F (Fluoride)		8,760	0.02 lb/ton of equiv. P <sub>2</sub> O <sub>5</sub> feed, 1.18 lbs/hr, 28.3 lbs/day 5.2 tons/year	1.18	5.2	1.18	5.2	62-204.800(7)(b)25, F.A.C. 40 CFR 60.202	III. C.2.
	VE		N/A	20% opacity	N/A	N/A	N/A	N/A	62-296.320(4)(b), F.A.C.	II. C.3.

Notes: \*The "Equivalent Emissions" listed are for informational purposes only.

N/A: Not Applicable EBA: Established by Applicant

**Table 1-1. Summary of Air Pollutant Standards and Terms**

CF Industries, Inc.

FINAL Permit No.: 0570005-007-AV

Facility ID No.: 0570005

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

J. ID No.	Brief Description
009	B  Phosphoric Acid Plant
010	A  DAP/MAP Plant
011	Z  DAP/MAP Plant

J. ID No.	Pollutant Name	Fuel(s)	Hours/Yr	Allowable Emissions			Equivalent Emissions*		Regulatory Citation(s)	See Perm Condition
				Standard(s)	lbs./hour	TPY	lbs./hour	TPY		
9	F (Fluoride)		8,760	0.02 lb/ton of equiv. P <sub>2</sub> O <sub>5</sub> feed (< 52 tons/hr of P <sub>2</sub> O <sub>5</sub> ) 1.04 lbs/hr, 24.9 lbs/day 4.6 tons/year	1.04	4.6	1.04	4.6	62-296.403(1)(a), F.A.C.	III. C.2.
	VE		N/A	20% opacity	N/A	N/A	N/A	N/A	62-296.320(4)(b), F.A.C.	II. C.3.
10	PM	Nat. gas No. 5	8,760	32.66 lbs/hr, 143.05 tons/yr RACT	32.66	143.05	32.66	143.05	62-296.700(2)(b), F.A.C./EBA	III. D.2.
	F (Fluoride)		8,760	0.06 lbs/ton of P <sub>2</sub> O <sub>5</sub> , 1.38 lbs/hr, 6.04 tons/yr	1.38	6.04	1.38	6.04	62-296.403, F.A.C.	III. D.3.
	VE	Nat. gas No. 5	N/A	20% opacity	N/A	N/A	N/A	N/A	62-296.320(4)(b), F.A.C.	II. C.3.
11	PM	Nat. gas No. 5	8,760	35.56 lbs/hr, 155.75 tons/yr RACT	35.56	155.75	35.56	155.75	62-296.700(2)(b), F.A.C./EBA	III. E.3.
	F (Fluoride)		8,760	0.06 lbs/ton of P <sub>2</sub> O <sub>5</sub> , (24 TPH) 1.38 lbs/hr, 6.04 tons/yr	1.44	6.31	1.44	6.31	62-296.403, F.A.C.	III. E.2.
	VE	Nat. gas No. 5	N/A	20% opacity	N/A	N/A	N/A	N/A	62-296.320(4)(b), F.A.C.	II. C.3.

Notes: \*The "Equivalent Emissions" listed are for informational purposes only.

N/A: Not Applicable EBA: Established by Applicant

**Table 1-1. Summary of Air Pollutant Standards and Terms**

CF Industries, Inc.

FINAL Permit No.: 0570005-007-AV

Facility ID No.: 0570005

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U. ID No.	Brief Description
012	X-train DAP/MAP/GTSP Plant
013	Y-train DAP/MAP/GTSP Plant

J. ID No.	Pollutant Name	Fuel(s)	Hours/Yr	Allowable Emissions			Equivalent Emissions*		Regulatory Citation(s)	See Perm Condition
				Standard(s)	lbs./hour	TPY	lbs./hour	TPY		
2	F (Fluoride)		8,760	0.15 lb/ton of P <sub>2</sub> O <sub>5</sub>	3.80	16.6	3.80	16.6	AC29-210979	III. E.2.
	{GTSP mode}			3.80 lbs/hr, 16.6 tons/year					62-212.300, F.A.C.	
	{DAP mode}			0.035 lb/ton of P <sub>2</sub> O <sub>5</sub>	1.70	6.70	1.70	6.70	AC29-210979	III. E.2.
				1.70 lbs/hr, 6.70 tons/year					62-212.300, F.A.C.	
	{MAP mode}		0.04 lb/ton of P <sub>2</sub> O <sub>5</sub>	2.20	6.70	2.20	6.70	AC29-210979	III. E.2.	
				2.20 lbs/hr, 6.70 tons/year					62-212.300, F.A.C.	
	PM{GTSP mode}	Nat. gas	8,760	32.6 lbs/hr, 142.8 tons/year	32.6	142.8	32.6	142.8	AC29-210979	III. E.3.
{DAP mode}	No. 2		10.62 lbs/hr, 41.88 tons/year	10.62	41.88	10.62	41.88	AC29-210979	III. E.3.	
{MAP mode}	fuel oil		13.75 lbs/hr, 41.88 tons/year	13.75	41.88	13.75	41.88	AC29-210979	III. E.3.	
VE	oil, gas	N/A	20% opacity	N/A	N/A	N/A	N/A	62-296.320(4)(b), F.A.C.	II. C.3.	
3	F (Fluoride)		8,760	0.06 lb/ton of P <sub>2</sub> O <sub>5</sub> , 2.2 lbs/hr	2.2	9.6	2.2	9.6	AC29-165420	III. E.2.
	{DAP/MAP}			9.6 TPY						
	{GTSP mode}		0.15 lb/ton of P <sub>2</sub> O <sub>5</sub> , 3.8 lbs/hr	3.8	16.6	3.8	16.6	AC29-165420	III. E.2.	
			16.6 TPY							
	PM{GTSP mode}		8,760	6.8 lbs/hr, 30 tons per year	6.8	30	6.8	30	AC29-165420	III. E.2.
{DAP/MAP}			15.3 lbs/hr, 67 tons/year	15.3	67	15.3	67			
VE	oil, gas	N/A	20% opacity	N/A	N/A	N/A	N/A	62-296.320(4)(b), F.A.C.	II. C.3.	

Notes: \*The "Equivalent Emissions" listed are for informational purposes only.

N/A: Not Applicable      EBA: Established by Applicant

Table 1-1. Summary of Air Pollutant Standards and Terms

CF Industries, Inc.

FINAL Permit No.: 0570005-007-AV  
 Facility ID No.: 0570005

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

J.U. ID No.	Brief Description
014	I A and B  Storage Buildings
015	I A  Shipping Baghouse
018	I B  Shipping Baghouse
019	I B  Truck Loading
020	I B  Railcar Loading
022	2600 Ton Storage Tank
023	Truck Pit A
024	Truck Pit B
033	5000 Ton Storage Tank
025	Rock Unloading and Storage

J. ID No.	Pollutant Name	Fuel(s)	Hours/Yr	Allowable Emissions			Equivalent Emissions*		Regulatory Citation(s)	See Perm Condition
				Standard(s)	lbs./hour	TPY	lbs./hour	TPY		
4	PM		8,760	37.54 lbs/hr, RACT	37.54		37.54	164.4	62-296.700(2)(b), F.A.C.\EBA	III. F.2.
	F (Fluoride)		8,760	0.05 lb/ton of P <sub>2</sub> O <sub>5</sub> , 2.5 lbs/hr	2.5		2.5	10.95	62-296.403(1)(e), F.A.C.	III. F.3.
	VE		N/A	20% opacity	N/A	N/A	N/A	N/A	62-296.320(4)(b), F.A.C.	II. C.3.
5, 018, 019 0	PM		8,760	each unit 5 lbs/hr, RACT	5.0	21.9	5.0	21.9	62-296.700(2)(b), F.A.C.\EBA	III. G.2.
	VE		N/A	5% opacity	N/A	N/A	N/A	N/A	62-296.320(4), F.A.C.	III. G.3.
2, 023, 024, 3	VE		N/A	10% opacity	N/A	N/A	N/A	N/A	62-296.411(1)(g), F.A.C., AC29-187327	III. H.2.
5	PM		8,760	3.08 lbs/hr, 13.49 TPY RACT	3.08	13.49	3.08	13.49	62-296.700(2)(b), F.A.C. AC29-190636	III. I.2.
	VE		N/A	5% opacity	N/A	N/A	N/A	N/A	62-296.320(4), F.A.C. AC29-190636	III. I.3.

Notes: \*The "Equivalent Emissions" listed are for informational purposes only.

N/A: Not Applicable EBA: Established by Applicant

Table 1-1. Summary of Air Pollutant Standards and Terms

CF Industries, Inc.

FINAL Permit No.: 0570005-007-AV

Facility ID No.: 0570005

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

J. ID No.	Brief Description
026	Product Reclaim Handling System
027	X Rock Bin
028	Y Rock Bin
029	Z Rock Bin
032	Phosphoric Acid Cleanup

J. ID No.	Pollutant Name	Fuel[s]	Hours/Yr	Allowable Emissions			Equivalent Emissions*		Regulatory Citation[s]	See Perm Condition
				Standard[s]	lbs./hour	TPY	lbs./hour	TPY		
6	PM		1,664	2.13 lbs/hr, 1.77 TPY, RACT	2.13	1.77	2.13	1.77	62-296.700(2)(b), F.A.C.\EBA AC29-190636	III. J.3.
	VE		N/A	5% opacity	N/A	N/A	N/A	N/A	62-296.320(4), F.A.C. AC29-190637	III. J.4.
7, 028, 029	PM		8,760	each storage bin 0.47 lbs/hr, 2.06 TPY, RACT	0.47	2.06	0.47	2.06	62-296.700(2)(b), F.A.C.\EBA AC29-190635	III. K.2.
	VE		N/A	5% opacity	N/A	N/A	N/A	N/A	62-296.320(4), F.A.C. AC29-190635	III. K.3.
2	PM		8,760	3.0 lbs/hr, 13.1 TPY, RACT	3.0	13.1	3.0	13.1	62-296.700(2)(b), F.A.C.	III. L.3.
	F (Fluoride)			0.4 lb/ton of P <sub>2</sub> O <sub>5</sub>	0.28	1.23	0.28	1.23	62-296.403(2), F.A.C.	III. L.4.
	VE		N/A	0.28 lb/hr, 1.23 tons/yr 5% opacity	N/A	N/A	N/A	N/A	62-296.320(4)(b), F.A.C.	II. C.3.

Notes: \*The "Equivalent Emissions" listed are for informational purposes only.

N/A: Not Applicable      EBA: Established by Applicant



**Table 1-1. Summary of Air Pollutant Standards and Terms**

CF Industries, Inc.

FINAL Permit No.: 0570005-007-AV

Facility ID No.: 0570005

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

**J.U. ID No.**    **Brief Description**  
 034            Clay Unloading Bin

J. ID No.	Pollutant Name	Fuel(s)	Hours/Yr	Allowable Emissions			Equivalent Emissions*		Regulatory Citation(s)	See Perm Condition
				Standard(s)	lbs./hour	TPY	lbs./hour	TPY		
4	PM		8,760	19.24 lbs/hr, RACT	19.24		19.24	84.27	62-296.700(2)(b), F.A.C.\EBA	III. M.3.
	VE		N/A	20% opacity	N/A	N/A	N/A	N/A	62-296.320(4)(b), F.A.C.	II. C.3.

Notes: \*The "Equivalent Emissions" listed are for informational purposes only.

N/A: Not Applicable      EBA: Established by Applicant

**Table 2-1. Summary of Compliance Requirements**

CF Industries, Inc.

FINAL Permit No.: 0570005-007-AV

Facility ID No.: 0570005

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

**E.U. ID No. Brief Description**

- 001 Johnson Scotch Marine Type Boiler
- 002 |A| Sulfuric Acid Plant
- 003 |B| Sulfuric Acid Plant
- 007 |C| Sulfuric Acid Plant
- 008 |D| Sulfuric Acid Plant

E.U. ID No.	Pollutant Name or Parameter	Fuel(s)	Compliance Method	Testing Time Frequency	Frequency Base Date *	Min. Compliance Test Duration	CMS**	See Permit Condition(s)
-001	VE	No. 2 Fuel Oil/ Nat. Gas	DEP Method 9	five years	180 days prior to exp. date	1 hour		III. A.5. & A.6.
-002	SO <sub>2</sub>		8	annual	15-March	1 hour		III. B.6. & B.7.
	H <sub>2</sub> SO <sub>4</sub> acid mist		8	annual	15-March	1 hour		III. B.6. & B.7.
	VE		9	annual	15-March	1 hour		III. B.6., B.7. & B.8.
-003	SO <sub>2</sub>		8	annual	25-August	1 hour		III. B.6. & B.7.
	H <sub>2</sub> SO <sub>4</sub> acid mist		8	annual	25-August	1 hour		III. B.6. & B.7.
	VE		9	annual	25-August	1 hour		III. B.6., B.7. & B.8.
-007, 008	SO <sub>2</sub>		8	annual	25-August	1 hour	yes	III. B.6., B.7. & B.9.
	H <sub>2</sub> SO <sub>4</sub> acid mist		8	annual	25-August	1 hour		III. B.6. & B.7.
	VE		9	annual	25-August	1 hour		III. B.6., B.7. & B.8.
	NO <sub>x</sub>		7 or 7A	as requested by DEP, EPCHC		1 hour		III. B.6. & B.7.

Notes: \*Frequency base date established for planning purposes only; see Rule 62-297.310, F.A.C.

\*\*CMS [=] continuous monitoring system

**Table 2-1. Summary of Compliance Requirements**

PF Industries, Inc.

FINAL Permit No.: 0570005-007-AV

Facility ID No.: 0570005

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

**E.U. ID No. Brief Description**

004 | A | Phosphoric Acid Plant  
 009 | B | Phosphoric Acid Plant  
 010 | A | DAP/MAP Plant

E.U. ID No.	Pollutant Name or Parameter	Fuel(s)	Compliance Method	Testing Time Frequency	Frequency Base Date *	Min. Compliance Test Duration	CMS**	See Permit Condition(s)
-004	F (Fluoride) VE mass flow pressure drop temperature scrubber flow rate		13A or 13B 9	annual annual	9-July 9-July	1 hour 1 hour	yes yes	III. C.3. & C.4. III. C.3. & C.4. III. C.12. III. C.13. III. C.8. III. C.10.
-009	F (Fluoride) VE temperature scrubber flow rate		13A or 13B 9	annual annual	20-May 20-May	1 hour 1 hour	yes	III. C.3. & C.4. III. C.3. & C.4. III. C.8. III. C.10.
-010	PM F (Fluoride) VE pressure drop liquid pressure pH	oil/gas  oil/gas	5 13A or 13B 9	annual annual annual	27-April <sup>1</sup> 27-April <sup>1</sup> 27-April <sup>1</sup>	1 hour 1 hour 1 hour		III. D.5. & D.6. III. D.5. & D.6. III. D.5. & D.6. III. D.9.A. III. D.9.A. III. D.9.A.

Notes: \*Frequency base date established for planning purposes only; see Rule 62-297.310, F.A.C.  
 \*\*CMS [=] continuous monitoring system; <sup>1</sup>Test annually and within 30 days of a change in the production mode

Table 2-1. Summary of Compliance Requirements

CF Industries, Inc.

FINAL Permit No.: 0570005-007-AV

Facility ID No.: 0570005

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

E.U. ID No. Brief Description

011 [Z] DAP/MAP Plant

012 X-train DAP/MAP/GTSP Plant

E.U. ID No.	Pollutant Name or Parameter	Fuel(s)	Compliance Method	Testing Time Frequency	Frequency Base Date *	Min. Compliance Test Duration	CMS**	See Permit Condition(s)
-011	PM	oil/gas	5	annual	6-April <sup>1</sup>	1 hour		III. E.5., E.6. & E.7.
	F (Fluoride)		13A or 13B	annual	6-April <sup>1</sup>	1 hour		III. E.5., E.6. & E.7.
	VE	oil/gas	9	annual	6-April <sup>1</sup>	1 hour		III. E.5., E.6. & E.7.
	pressure drop							III. E.9.
	liquid pressure							III. E.9.
	pH						III. E.9.	
-012	PM	oil/gas	5	annual	5-May <sup>1</sup>	1 hour	yes	III. E.5., E.6. & E.7.
	F (Fluoride)		13A or 13B	annual	5-May <sup>1</sup>	1 hour		III. E.5., E.6. & E.7.
	VE	oil/gas	9	annual	5-May <sup>1</sup>	1 hour		III. E.5., E.6. & E.7.
	mass flow							III. E.11.
	pressure drop							III. E.9. & E.12.
	liquid pressure							III. F.9.
	pH							III. E.9.
SO <sub>2</sub>	Oil	fuel analysis, and sampling	annual	5-May <sup>1</sup>			III. E.10.	

Notes: \*Frequency base date established for planning purposes only; see Rule 62-297.310, F.A.C.

\*\*CMS [=] continuous monitoring system; <sup>1</sup>Test annually and within 30 days of a change in the production mode

**Table 2-1. Summary of Compliance Requirements**

CF Industries, Inc.

FINAL Permit No.: 0570005-007-AV

Facility ID No.: 0570005

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

**E.U. ID No. Brief Description**

013 Y-train DAP/MAP/GTSP Plant

014 |A and B| Storage Buildings

015 |A| Shipping Baghouse

E.U. ID No.	Pollutant Name or Parameter	Fuel(s)	Compliance Method	Testing Time Frequency	Frequency Base Date *	Min. Compliance Test Duration	CMS**	See Permit Condition(s)
-013	PM	oil/gas	5 13A or 13B	annual	5-May <sup>1</sup>	1 hour	yes	III. E.5., E.6. & E.7.
	F (Fluoride)			annual	5-May <sup>1</sup>	1 hour		III. E.5., E.6. & E.7.
	VE	oil/gas		annual	5-May <sup>1</sup>	1 hour		III. E.5., E.6. & E.7.
	mass flow					III. E.11.		
	pressure drop					III. E.9. & E.12.		
	liquid pressure					III. E.9.		
	pH					III. E.9.		
	SO <sub>2</sub>	Oil	fuel analysis, and sampling	annual	5-May <sup>1</sup>		III. E.10.	
-014	PM	oil/gas	5 13A or 13B	annual	28-March	1 hour		III. F.4. & F.5.
	F (Fluoride)			annual	28-March	1 hour		III. F.4., F.5. & F.6.
	VE	oil/gas		annual	28-March	1 hour		III. F.4. & F.5.
	pressure drop					III. F.10.		
	liquid flow rate					III. F.10.		
-015	VE		DEP Method 9	annual	8-September	30 minutes		III. G.4. & G.5.
	pressure drop							III. G.9.

Notes: \*Frequency base date established for planning purposes only; see Rule 62-297.310, F.A.C.

\*\*CMS [=] continuous monitoring system; <sup>1</sup>Test annually and within 30 days of a change in the production mode

**Table 2-1. Summary of Compliance Requirements**

CF Industries, Inc.

FINAL Permit No.: 0570005-007-AV

Facility ID No.: 0570005

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

<u>E.U. ID No.</u>	<u>Brief Description</u>
018	BI Shipping Baghouse
019	BI Truck Loading
020	BI Railcar Loading
022	2600 Ton Storage Tank
023	Truck Pit A
024	Truck Pit B
033	5000 Ton Storage Tank
025	Rock Unloading and Storage
026	Product Reclaim Handling System

E.U. ID No.	Pollutant Name or Parameter	Fuel(s)	Compliance Method	Testing Time Frequency	Frequency Base Date *	Min. Compliance Test Duration	CMS**	See Permit Condition(s)
-018, 019, 020	VE pressure drop		DEP Method 9	annual	2-June	30 minutes		III. G.4. & G.5. III. G.9.
-022, 023, 024, 033	VE		DEP Method 9	annual	12-June	30 minutes		III. H.3. & H.4.
-025	PM VE opacity		5 9	annual annual	19-March 19-March	1 hour 30 minutes		III. I.4. & I.5. III. I.4. & I.5. III. I.9.
-026	PM VE opacity		5 9	annual annual	19-March 19-March	1 hour 30 minutes		III. J.5. & J.6. III. J.5. & J.6. III. J.10.

Notes: \*Frequency base date established for planning purposes only; see Rule 62-297.310, F.A.C.

\*\*CMS [=] continuous monitoring system

**Table 2-1. Summary of Compliance Requirements**

CF Industries, Inc.

FINAL Permit No.: 0570005-007-AV

Facility ID No.: 0570005

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

**E.U. ID No. Brief Description**

- 027 X Rock Bin
- 028 Y Rock Bin
- 029 Z Rock Bin
- 032 Phosphoric Acid Cleanup
- 034 Clay Unloading Bin

E.U. ID No.	Pollutant Name or Parameter	Fuel(s)	Compliance Method	Testing Time Frequency	Frequency Base Date *	Min. Compliance Test Duration	CMS**	See Permit Condition(s)
-027, 028, 029	PM VE opacity		5 9	annual annual	19-March 19-March	1 hour 30 minutes		III. K.4. & K.5. III. K.4. & K.5. III. K.9.
-032	F (Fluoride) PM VE fan amperes scrubber flow rate		13A or 13B 5 9	annual annual annual	23-August 23-August 23-August	1 hour 1 hour 30 minutes		III. L.5. & L.6. III. L.5. & L.6. III. L.5. & L.6. III. L.9. III. L.9.
-034	PM VE opacity		5 9	annual annual	13-March 13-March	1 hour 30 minutes		III. M.4. & M.5. III. M.4. & M.5. III. M.8.

Notes: \*Frequency base date established for planning purposes only; see Rule 62-297.310, F.A.C.

\*\*CMS [=] continuous monitoring system