

4-9-91

Date

OPERATING PERMIT
CONDITIONS

TO:

CINDY PHILLIPS

Dept.: BAR - Tallahassee DER

Phone: _____

FROM:

GARY MAIER

Dept.: D.E.R., Tampa Office

Phone: 813-623-5561 or SunCom 552-7612

RECEIVED

APR 11 1991

DER-BAQM

EXT. 412

PERMITTEE:
C.F. Industries, Inc.
Plant City Phosphate
Complex

PERMIT/CERTIFICATION NO.: AO29-167063
PROJECT: Sulfuric Acid Plant C

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. The maximum production rate shall not exceed 2400 tons per day based on 100% H₂SO₄.
3. Pursuant to 40 CFR 60, Subpart H, sulfur dioxide emissions shall not exceed:
 - a. 4 pound per tons of 100% H₂SO₄ produced
 - b. 400 pounds per hour
 - c. 1752 tons per year
4. Pursuant to 40 CFR 60, Subpart H, sulfuric acid mist emissions shall not exceed:
 - a. 0.15 pound per ton of 100% H₂SO₄ produced
 - b. 15 pounds per hour
 - c. 65.7 tons per year
5. Pursuant to 40 CFR 60, Subpart H, visible emissions shall not exceed 10% opacity.
6. Test the emissions for the following pollutant(s) at intervals of 12 months from November 2, 1988 and submit 2 copies of test data to the Air Section of the Environmental Protection Commission of Hillsborough County office within forty-five days of such testing. Testing procedures shall be consistent with the requirements of Section 17-2.700, F.A.C.:

<input type="checkbox"/> Particulates	<input checked="" type="checkbox"/> Sulfur Oxides
<input type="checkbox"/> Fluorides	<input type="checkbox"/> Nitrogen Oxides
<input checked="" type="checkbox"/> Opacity	<input type="checkbox"/> Hydrocarbons
<input checked="" type="checkbox"/> Acid Mist	<input type="checkbox"/> Total Reduced Sulfur
7. Compliance with the emission limitations of Specific Conditions Nos. 3, 4, and 5 shall be determined using EPA Methods 1, 2, 4, 8 and 9 contained in 40 CFR 60, Appendix A and adopted by reference in Section 17-2.700, F.A.C. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Section 17-2.700, F.A.C. and 40 CFR 60, Appendix A. Annual compliance tests shall be conducted in accordance with 40 CFR 60, Subpart H, Standards of Performance for Sulfuric Acid Plants.

PERMITTEE:
C.F. Industries, Inc.
Plant City Phosphate
Complex

PERMIT/CERTIFICATION NO.: AO29-167063
PROJECT: Sulfuric Acid Plant C

SPECIFIC CONDITIONS: (continued)

8. The permitted capacity of this source is 2000 tons per day based on the rate at which the November 2, 1988 stack test was conducted. Approved compliance stack testing of emissions shall be conducted within approximately 10% of the permitted capacity when practical. A compliance test submitted at operating levels less than 90% of the permitted capacity will automatically constitute an amended permit at the lesser rate plus 10% until another test (showing compliance) at 90% of a higher capacity is submitted. If the permitted capacity of this source is exceeded by at least 10%, a compliance test shall be performed within thirty (30) days of initiation of the higher rate and the results of the test shall be submitted to the Department and the Environmental Protection Commission of Hillsborough County. Acceptance of said test will automatically constitute an amended permit at the greater rate plus 10%. Emission limitations are not automatically adjusted above the allowable levels established by this permit and/or the design process rate. Failure to submit the input rates or operation at conditions during test which do not reflect actual operating conditions may invalidate the data (Subsection 403.161(1)(c), Florida Statutes).

9. The Environmental Protection Commission of Hillsborough County shall be notified in writing 15 days in advance of any compliance test to be conducted on this source. Written reports of the test shall be submitted within 45 days of test completion.

10. A continuous emission monitoring system to determine sulfur dioxide emissions from this source shall be calibrated, operated, and maintained in accordance with 40 CFR 60, Subpart H.

11. A report shall be submitted to both the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation within 30 days following each calendar quarter detailing any excess sulfur dioxide readings recorded during the three month period, in accordance with Rule 17-2.710(2), F.A.C.

12. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information pursuant to Section 403.061(13), Florida Statutes:

PERMITTEE:
C.F. Industries, Inc.
Plant City Phosphate
Complex

PERMIT/CERTIFICATION NO.: AO29-167063
PROJECT: Sulfuric Acid Plant C

SPECIFIC CONDITIONS: (continued)

- (A) Annual amount of materials and/or fuels utilized.
- (B) Annual emissions (note calculation basis).
- (C) Any changes in the information contained in the permit application.

Duplicate copies of all reports shall be submitted to the Environmental Protection Commission of Hillsborough County.

13. Any change in the method of operation, raw materials and chemical processed, equipment, or operating hours pursuant to Subsection 17-2.100(118), F.A.C. modification, shall be submitted for approval to DER's Bureau of Air Quality Management office and the Environmental Protection Commission of Hillsborough County.

14. When start-up involving more than one acid plant occurs, a second plant will not be started-up until the first plant is started and in compliance. The permittee shall take all reasonable precautions to avoid violations of the ambient air quality standards during plant start-ups.

15. Four applications to renew this operating permit shall be submitted to the Environmental Protection Commission of Hillsborough County 60 days prior to the expiration date of this permit.

16. Pursuant to Chapter 1-3.22(3) of the Rules of the Environmental Protection Commission of Hillsborough County, the permittee shall not allow the discharge of air pollutants which contribute to an objectionable odor outside plant property.

17. Pursuant to Chapter 1-1.05, Rules of the Environmental Protection Commission of Hillsborough County, the permittee shall promptly notify* the Commission's Air Programs Department of any abnormal event** associated with the operation of the source which results in elevated emissions. Notification shall include the following:

- a. Facility Name
- b. Source Name (Sulfuric Acid Plant C)
- c. Cause
- d. Time and Duration of the Event
- e. CEM Reading, if applicable
- f. Steps taken to reduce emissions if event is still occurring
- g. Identification of person reporting the event

PERMITTEE:
C.F. Industries, Inc.
Plant City Phosphate
Complex

PERMIT/CERTIFICATION NO.: AO29-167063
PROJECT: Sulfuric Acid Plant C

SPECIFIC CONDITIONS: (continued)

A reportable abnormal event does not necessarily constitute a permit violation.

* For purposes of this condition, prompt notification shall mean "within thirty (30) minutes following detection of the reportable event by the permittee as long as reasonable care is taken in monitoring the source."

** For purposes of this condition, abnormal events shall, in part, include:

For all start-ups (hot and cold): the time when the unit will begin to burn sulfur.

18. Pursuant to Chapter 1-1.06, Rules of the Environmental Protection Commission of Hillsborough County, the permittee shall maintain the pollution control and process equipment in good repair in order to reduce abnormal events and fugitive leaks which might result in elevated emissions. This permit acknowledges that leaks of sulfur dioxide and sulfur trioxide or other fugitive process emissions that do not pass through a stack may occur as part of routine operations. Best operational practices to minimize these emissions shall be adhered to and shall include regular inspections and the prompt repair or correction of any leaks or other fugitive emissions.

Issued: September 28, 1989
Amended this 13 day of Aug
1990.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION



Richard Garrity, Ph.D.
Deputy Assistant Secretary

PERMITTEE:
C.F. Industries, Inc.
Plant City Phosphate
Complex

PERMIT/CERTIFICATION NO.: AO29-167064
PROJECT: Sulfuric Acid Plant D

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. The maximum production rate shall not exceed 2400 tons per day based on 100% H₂SO₄.
3. Pursuant to 40 CFR 60, Subpart H, sulfur dioxide emissions shall not exceed:

- a. 4 pound per tons of 100% H₂SO₄ produced
- b. 400 pounds per hour
- c. 1752 tons per year

4. Pursuant to 40 CFR 60, Subpart H, sulfuric acid mist emissions shall not exceed:

- a. 0.15 pound per ton of 100% H₂SO₄ produced
- b. 15 pounds per hour
- c. 65.7 tons per year

5. Pursuant to 40 CFR 60, Subpart H, visible emissions shall not exceed 10% opacity.

6. Test the emissions for the following pollutant(s) at intervals of 12 months from November 17, 1988 and submit 2 copies of test data to the Air Section of the Environmental Protection Commission of Hillsborough County office within forty-five days of such testing. Testing procedures shall be consistent with the requirements of Section 17-2.700, F.A.C.:

- | | |
|---|---|
| <input type="checkbox"/> Particulates | <input checked="" type="checkbox"/> Sulfur Oxides |
| <input type="checkbox"/> Fluorides | <input type="checkbox"/> Nitrogen Oxides |
| <input checked="" type="checkbox"/> Opacity | <input type="checkbox"/> Hydrocarbons |
| <input checked="" type="checkbox"/> Acid Mist | <input type="checkbox"/> Total Reduced Sulfur |

7. Compliance with the emission limitations of Specific Conditions Nos. 3, 4, and 5 shall be determined using EPA Methods 1, 2, 4, 8 and 9 contained in 40 CFR 60, Appendix A and adopted by reference in Section 17-2.700, F.A.C. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Section 17-2.700, F.A.C. and 40 CFR 60, Appendix A. Annual compliance tests shall be conducted in accordance with 40 CFR 60, Subpart H, Standards of Performance for Sulfuric Acid Plants.

PERMITTEE:
C.F. Industries, Inc.
Plant City Phosphate
Complex

PERMIT/CERTIFICATION NO.: AO29-167064
PROJECT: Sulfuric Acid Plant D

SPECIFIC CONDITIONS: (continued)

8. The permitted capacity of this source is 2100 tons per day based on the rate at which the November 17, 1988 stack test was conducted. Approved compliance stack testing of emissions shall be conducted within approximately 10% of the permitted capacity when practical. A compliance test submitted at operating levels less than 90% of the permitted capacity will automatically constitute an amended permit at the lesser rate plus 10% until another test (showing compliance) at 90% of a higher capacity is submitted. If the permitted capacity of this source is exceeded by at least 10%, a compliance test shall be performed within thirty (30) days of initiation of the higher rate and the results of the test shall be submitted to the Department and the Environmental Protection Commission of Hillsborough County. Acceptance of said test will automatically constitute an amended permit at the greater rate plus 10%. Emission limitations are not automatically adjusted above the allowable levels established by this permit and/or the design process rate. Failure to submit the input rates or operation at conditions during test which do not reflect actual operating conditions may invalidate the data (Subsection 403.161(1)(c), Florida Statutes).
9. The Environmental Protection Commission of Hillsborough County shall be notified in writing 15 days in advance of any compliance test to be conducted on this source. Written reports of the test shall be submitted within 45 days of test completion.
10. A continuous emission monitoring system to determine sulfur dioxide emissions from this source shall be calibrated, operated, and maintained in accordance with 40 CFR 60, Subpart H.
11. A report shall be submitted to both the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation within 30 days following each calendar quarter detailing any excess sulfur dioxide readings recorded during the three month period, in accordance with Subsection 17-2.710(2), F.A.C.
12. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information pursuant to Section 403.061(13), Florida Statutes:

PERMITTEE:
C.F. Industries, Inc.
Plant City Phosphate
Complex

PERMIT/CERTIFICATION NO.: A029-167064
PROJECT: Sulfuric Acid Plant D

SPECIFIC CONDITIONS: (continued)

- (A) Annual amount of materials and/or fuels utilized.
- (B) Annual emissions (note calculation basis).
- (C) Any changes in the information contained in the permit application.

Duplicate copies of all reports shall be submitted to the Environmental Protection Commission of Hillsborough County.

13. Any change in the method of operation, raw materials and chemical processed, equipment, or operating hours pursuant to Rule 17-2.100(118), F.A.C. modification, shall be submitted for approval to DER's Bureau of Air Quality Management office and the Environmental Protection Commission of Hillsborough County.

14. When start-up involving more than one acid plant occurs, a second plant will not be started-up until the first plant is started and in compliance. The permittee shall take all reasonable precautions to avoid violations of the ambient air quality standards during plant start-ups.

15. Four applications to renew this operating permit shall be submitted to the Environmental Protection Commission of Hillsborough County 60 days prior to the expiration date of this permit.

16. Pursuant to Chapter 1-3.22(3) of the Rules of the Environmental Protection Commission of Hillsborough County, the permittee shall not allow the discharge of air pollutants which contribute to an objectionable odor outside plant property.

17. Pursuant to Chapter 1-1.05, Rules of the Environmental Protection Commission of Hillsborough County, the permittee shall promptly notify* the Commission's Air Programs Department of any abnormal event** associated with the operation of the source which results in elevated emissions. Notification shall include the following:

- a. Facility Name
- b. Source Name (Sulfuric Acid Plant D)
- c. Cause
- d. Time and Duration of the Event
- e. CEM Reading, if applicable
- f. Steps taken to reduce emissions if event is still occurring
- g. Identification of person reporting the event

PERMITTEE:
C.F. Industries, Inc.
Plant City Phosphate
Complex

PERMIT/CERTIFICATION NO.: AO29-167064
PROJECT: Sulfuric Acid Plant D

SPECIFIC CONDITIONS: (continued)

A reportable abnormal event does not necessarily constitute a permit violation.

* For purposes of this condition, prompt notification shall mean "within thirty (30) minutes following detection of the reportable event by the permittee as long as reasonable care is taken in monitoring the source."


** For purposes of this condition, abnormal events shall, in part, include:

For all start-ups (hot and cold): the time when the unit will begin to burn sulfur.

18. Pursuant to Chapter 1-1.06, Rules of the Environmental Protection Commission of Hillsborough County, the permittee shall maintain the pollution control and process equipment in good repair in order to reduce abnormal events and fugitive leaks which might result in elevated emissions. This permit acknowledges that leaks of sulfur dioxide and sulfur trioxide or other fugitive process emissions that do not pass through a stack may occur as part of routine operations. Best operational practices to minimize these emissions shall be adhered to and shall include regular inspections and the prompt repair or correction of any leaks or other fugitive emissions.

Issued: September 28, 1989
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Richard Garrity, Ph.D.
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