

PS Form 3811, Jan. 1979

● **SENDER:** - Complete items 1, 2, and 3.  
Add your address in the "RETURN TO" space on reverse.

1. The following service is requested (check one.)  
 Show to whom and date delivered.....  
 Show to whom, date and address of delivery.....  
 RESTRICTED DELIVERY  
 Show to whom and date delivered.....  
 RESTRICTED DELIVERY.  
 Show to whom, date, and address of delivery \$.....

(CONSULT POSTMASTER FOR FEES)

2. **ARTICLE ADDRESSED TO:**  
 Mr. M. P. McArthur  
 P. O. Box 300  
 White Springs, FL 32096

3. **ARTICLE DESCRIPTION:**  
 REGISTERED NO. | CERTIFIED NO. | INSURED NO.  
 | P408530316 | |

(Always obtain signature of addressee or agent)

I have received the article described above.  
 SIGNATURE  Addressee  Authorized agent  
*Clarence Rogers*

4. **DATE OF DELIVERY**  
 5-27-83

5. **ADDRESS** (Complete only if requested)

6. **UNABLE TO DELIVER BECAUSE:**

POSTMASTER  
 WHITE SPRINGS  
 MAY 27 1983  
 CLERK'S OFFICE  
 MAIL

☆GPO : 1979-300-459

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

PS Form 3800, Feb. 1982

Postmark or Date	5/26/83
TOTAL Postage and Fees	\$
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED FOR INTERNATIONAL MAIL

(See Reverse)

M. P. McArthur

Street and No.

P.O., State and ZIP Code

Postage \$

Certified Fee

Special Delivery Fee

Restricted Delivery Fee

Return Receipt Showing to whom and Date Delivered

Return Receipt Showing to whom, Date, and Address of Delivery

TOTAL Postage and Fees \$

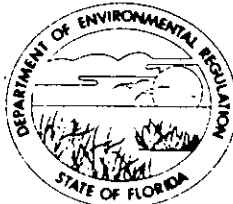
Postmark or Date

5/26/83

P 408 530 316

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 25, 1983

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. M. P. McArthur  
Vice President and General Manager  
Occidental Chemical Company  
Post Office Box 300  
White Springs, Florida 32096

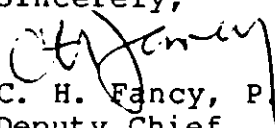
Dear Mr. McArthur:

RE: Final Determination - Occidental Chemical Company  
Swift Creek Chemical Complex (AC 24-56209, AC 24-56210,  
AC 24-56211 and PSD-FL-082) and Suwannee River Chemical  
Complex (AC 24-56212, AC 24-56213, AC 24-56214, AC 24-  
56215 and PSD-FL-083)

Enclosed please find one copy of the referenced Final Determination. State Permit Numbers AC 24-56209, AC 24-56210, AC 24-56211, AC 24-56212, AC 24-56213, AC 24-56214, and AC 24-56215 are hereby issued as of May 17, 1983, pursuant to Section 403, Florida Statutes. Final approval of the Federal PSD permits is contingent upon review and acceptance of the permit conditions by the Environmental Protection Agency Region IV office in Atlanta. Questions concerning final issuance of the Federal permit should be directed to Mr. James T. Wilburn of the EPA office.

Acceptance of the state permits constitutes notice and agreement that the Department will periodically review these permits for compliance, including site inspections where applicable, and may initiate enforcement actions for violation of the conditions and requirements thereof.

Sincerely,

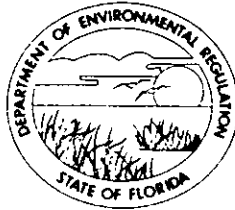
  
C. H. Fancy, P. E.  
Deputy Chief  
Bureau of Air Quality  
Management

CHF/pa  
Enclosure

cc: Dr. John B. Koogler, Sholtes & Koogler Environmental  
Consultants  
Ms. Elisabeth Cummings, U.S. Fish and Wildlife Service  
Mr. John Ketteringham, DER Northeast District

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 25, 1983

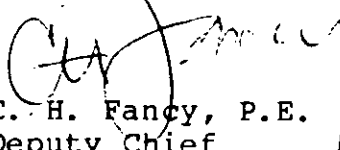
Mr. James T. Wilburn, Chief  
Air Management Branch  
Air & Waste Management Division  
U.S. EPA, Region IV  
345 Courtland Street, N.E.  
Atlanta, Georgia 30365

Dear Mr. Wilburn:

RE: Final Determination - Occidental Chemical Company  
Swift Creek Chemical Complex (PSD-FL-082) and Suwannee  
River Chemical Complex (PSD-FL-083)

Enclosed please find a copy of the proof of publication of the public notice and Department's Final Determination for the subject projects. We recommend that the applicant be granted Authority to Construct, subject to the conditions in the Final Determination.

Sincerely,

  
C. H. Fancy, P.E.  
Deputy Chief  
Bureau of Air Quality  
Management

CHF/pa

Enclosure

Final Determination

Occidental Chemical Company  
Swift Creek and Suwannee River Chemical Complexes  
Hamilton County, Florida

Permit Numbers

Sulfuric Acid Plant "F" AC 24-56209  
Auxiliary Boiler "E" AC 24-56210  
Sulfuric Acid Plant "E" AC 24-56211  
Auxiliary Boiler "B" AC 24-56212  
Auxiliary Boiler "D" AC 24-56213  
Auxiliary Boiler "C" AC 24-56214  
DAP Plant No. 2 AC 24-56215

Florida Department of Environmental Regulation  
Bureau of Air Quality Management  
Central Air Permitting  
May 17, 1983

## FINAL DETERMINATION

Occidental Chemical's applications for permits to construct/modify two sulfuric acid plants and to increase the sulfur content of the fuel oil use to fire four existing steam boilers and a diammonium phosphate dryer have been reviewed by the Bureau of Air Quality. These sources are located at their existing chemical complexes near White Springs, Florida. Public Notice of the Department's Intent to Issue the construction permits was published in the Lake City Reporter and the Jasper News, on March 31, 1983.

Copies of the preliminary determination have been available for public inspection at the Department's Northeast District Office, the Columbia County Public Library and the Bureau of Air Quality Management Office in Tallahassee.

Comments on the proposed construction were received from Mr. John B. Koogler in behalf of the company, Mr. James T. Wilburn of the U.S. Environmental Protection Agency, Region IV, and Mr. Walter R. McAllister of the U. S. Fish and Wildlife Service.

Mr. Koogler commented on the draft public notice's wording and requested that Specific Conditions No. 5 and No. 9 (application No. AC 24-56209 and AC 24-56211) and Specific Condition No. 2 (application No. AC 24-56214 and AC 24-56213) be modified. He also requested a clarification of Table I of the Preliminary Determination. Mr. Wilburn and Mr. McAllister questioned the Department's air quality analysis in the Preliminary Determination.

The Department has considered their comments and proceeded as follows:

Per Mr. Koogler's request, Specific Conditions No. 2, No. 5, No. 9 and Table I and II of the Preliminary Determination were modified since the changes involved will not affect the emissions from these sources. The public notice was reworded. These changes are described below:

Application Permits: AC 24-56209, AC 24-56211

Specific Condition No. 5 was modified as follows:

The applicant shall establish a conversion factor for the purpose of converting monitoring data into units of the applicable standard (kg/metric ton, lb/short ton). The conversion factor shall be determined, as set forth in Section 60.84 (b), Emission monitoring. Other EPA and State approved method may be substituted for those specified in 40 CFR 60, Subpart H, 60.84(b).

Specific Condition No. 9 was modified to specify the frequency with which compliance test for nitrogen oxide emission must be made. The following paragraph was added to this condition: Performance tests for nitrogen oxides to determine emission

compliance status shall be requested by the Department when deemed necessary.

Application Permits: AC 24-56214, AC 24-56213

Specific Condition No. 2 was changed to allow continuous operation, since full time operation will not threaten ambient air quality.

Table I was corrected as requested. The particulate matter emission data was changed to reflect emissions from oil burning instead of coal-oil mix burning in the "C" boiler. Table II was modified for clarification purposes.

### Public Notice

The Public Notice was reworded to read: "No physical modifications to the plant equipment are required to accomplish these operational changes except for the minor changes detailed in the construction permit applications." These minor changes will be done in order to achieve the production rate increase (up to 2500 TPD). These changes involve increasing the size of the economizer, the gas handling system and the catalyst loading. The absorption towers and mist eliminators will not be modified.

Regarding Mr. Wilburn's comments, the areas of questions and the Department's responses follow. The first seven comments are those of Mr. Wilburn and the last comment is common to both Mr. Wilburn and Mr. McAllister.

### Comment No. 1

In determining the sulfur dioxide (SO<sub>2</sub>) impacts on the Class I area, a 12-hour half-life was used in the modeling. Region IV discourages anyone from using this assumption except in very isolated cases and then only after sufficient documentation has been presented. Therefore, Occidental should justify how and why a 12-hour half-life for SO<sub>2</sub> emissions would be appropriate in this case.

### Response

The use of a 12-hour half-life for SO<sub>2</sub> impacts on the Class I area was approved by the Department after consultation with EPA Region IV. Our several conversations with EPA on this point were with Lew Nagler, the Region IV meteorologist.

The applicant originally proposed the use of an eight-hour half-life. This was disapproved by the Department. A 12-hour half-life has been used, and approved of, in the past by EPA in other permit-related modeling studies. Two in particular are Jacksonville Electric Authority (JEA) in Florida and Airco Carbon in South Carolina. It is the opinion of the Department that the meteorology and SO<sub>2</sub> conversion environment of the north Florida

site for Occidental facilities is similar enough to the above two cases to justify the use of the same 12-hour half-life.

Comment No. 2

Much of the modeling analysis is confusing in that one is not able to determine whether or not all emission points have been included or that the SCCC and SRCC plants have been modeled separately. The modeling information is insufficient to determine the adequacy of the submittals, for example, Tables 1, 2, and 3 depicting Class I area impacts are not clear.

Response

In the modeling analysis all increment consuming sources at both SRCC and SCCC were used for the separate PSD reviews of these facilities. The facilities were modeled separately in that separate receptor grids were used for each facility under review. Since the two facilities are five kilometers apart, the separate grids were needed to adequately resolve the calculated concentrations in the areas surrounding each facility.

Only one analysis of the Class I area was made. Both the SRCC and SCCC facilities were included in the modeling with the receptors located along the boundary of the Class I area.

Comment No. 3

On page 8, the existing air quality analysis for the SRCC facility gives different results from similar analyses performed for the SCCC facility found on page 7. Please explain these differences.

Response

The maximum increment consumption predicted in the general area of each facility (SRCC and SCCC) defined the increment consumed for each. In determining these values all increment consuming sources from both facilities were used in the modeling. The predicted maximum increment consumption for each facility could occur with different meteorology because of the effect of the upwind facility on the other. However, the maximum predicted increment consumption for a facility will not necessarily occur in an interacting situation of both facilities. For these reasons, the increment consumption was quantified in the areas surrounding each facility. The alternative would be to take the maximum increment consumed from either facility and call that the maximum for both.

Comment No. 4

The Department of Environmental Regulation (DER) letter of June 25, 1982, indicates violations were modeled by the DER. There is no evidence in the documents that this concern has been

corrected.

#### Response

The modeled violations of the 24-hour Florida Ambient Air Quality Standard (FAAQS) for SO<sub>2</sub> were corrected when the applicant agreed to change the allowable emission limits of the polyphos reactors A and B from 13.1 grams per second to 0.63 grams per second. The lower value is close to the actual emissions coming from these sources.

#### Comment No. 5

The AQDM model used in the SCCC annual modeling analysis is inappropriate. The preferred model is the ISCLT which was used in the SRCC analysis. The impacts however, from the two different models were identical.

#### Response

The Department agrees that the AQDM model is no longer appropriate for annual modeling. This model will no longer be accepted for PSD review. The ISCLT model will be the recommended model. The use of the AQDM model in the PSD review for the Occidental facilities would not, in the opinion of the Department, result in a change in the conclusions.

#### Comment No. 6

The use of the PTMTP-W model should be accepted with reservation since this model has been replaced by the MPTER/ISC or other similar models.

#### Response

The PTMTP-W model has been accepted by the Department as an equivalent model to the MPTER and ISCST models provided all the appropriate updates have been made. The Department often checks the modeling results with equivalent ISCST model runs.

#### Comments No. 7

The soils and vegetation analysis should be expanded, especially when discussing Class I area impacts. This analysis should correlate predicted ground level concentrations with the sensitivity levels of the soils and vegetation in the area. This should also include short and long term exposure durations.

#### Response

The impact of the Occidental facilities has been shown to result in concentrations in the ambient air of less than the secondary standards. Since these standards have been set to protect soils and vegetation, the Department is satisfied that no



adverse impacts will result.

Since the maximum impact near the Occidental facility is less than the secondary standard, the impact at the Class I area located 40 kilometers to the northeast will be far below the secondary standard. Although all of the allowed PSD increment is consumed, the actual levels of SO<sub>2</sub> concentration are not expected to be great enough to cause any effect on soils and vegetation in the Class I area.

Comment No. 8

Due to the 100% consumption of the Class I area increment for SO<sub>2</sub>, EPA recommends that a post construction ambient monitor be located at the maximum impact area at the appropriate boundary of the Class I area.

Response

The placement of an SO<sub>2</sub> monitor at the boundary of the Class I area will not give any meaningful information about the increment consumed by the SRCC and SCCC facilities. It is the Department's opinion that the use of monitors to discover violations of increments is inappropriate in the case of a source modification, because one cannot distinguish between background or non-increment consuming concentrations and increment consuming ones in the measured data. Therefore the Department does not agree with the EPA recommendation.

The expiration date was changed to January 30, 1984 for the final permits.

The final action of the Department will be to issue the permits with the changes noted above.

Table 1

SUMMARY OF EMISSIONS(Tons per year)<sup>(1)</sup>

<u>SOURCE</u>	<u>POLLUTANT</u>					
	PM	SO <sub>2</sub>	NO <sub>2</sub>	CO	VOC	
Boiler "B"						
Permitted <sup>(2)</sup>	70.00	597		---	---	
Proposed <sup>(3)</sup>	62.3	765.8	287.2	23.9	4.8	
Increase	-7.7	168.8		-0-	-0-	
Boiler "C"						
Permitted <sup>(2)</sup>	39.5	442.4	----	----	----	
Proposed <sup>(3)</sup>	46.7	572.1	239	18.4	4.5	
Increase	7.2	129.7	-0-	-0-	-0-	
Boiler "D"						
Permitted <sup>(2)</sup>	39.5	442.4	----	----	----	
Proposed <sup>(3)</sup>	46.7	564.0	215	18	4	
Increase	7.2	121.6	-0-	-0-	-0-	
<b>TOTAL INCREASE**</b>	<b>6.7</b>	<b>420.1</b>	<b>-0-</b>	<b>-0-</b>	<b>-0-</b>	
#2 DAP Dryer*	PM	SO <sub>2</sub>	F			
Permitted <sup>(2)</sup>	193	27.7	6.1	---	---	
Proposed <sup>(3)</sup>	193	51.5	6.1	---	---	
Increase	----	23.8	-0-	---	---	
<b>TOTAL INCREASE**</b>	<b>-0-</b>	<b>23.8</b>	<b>-0-</b>	<b>-0-</b>	<b>-0-</b>	
Significant Levels	25	40	40	3	100	40

(1) Emissions calculations based on 8760 hours per year and 100% on oil for Boilers B, C, D and DAP plant No. 2.

(2) Permitted emissions as stated in the federal application PSD-FL-083 (Table 2-1) and Boiler B operating permit AO 24-34186  
Boiler C and D operating permit AO 24-21059, and  
DAP plant #2 operating permit AO 24-33051

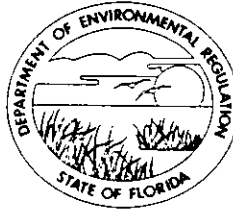
(3) Proposed emissions as calculated by the applicant in the State applications and additional correspondence

\* Fluoride Emissions for the #2 DAP plant will not change (0.06#F/TP<sub>2</sub>O<sub>5</sub>)

\*\* Emission rate increases of regulated pollutants (nitrogen oxides, VOC and carbon monoxide) will not be affected by the proposed change.

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

**PERMITTEE:**

Occidental Chemical Company  
P. O. Box 300  
White Springs, Florida 32096

Permit Number: AC 24-56209  
Date of Issue:  
Expiration Date: January 30, 1984  
County: Hamilton  
Latitude/Longitude: 30° 26' 29"  
82° 51' 56"  
Project: Sulfuric Acid Plant "F"

This permit is issued under the provisions of Chapter(s) 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 2500 TPD double absorption type Sulfuric Acid Plant located at Occidental Chemical Swift Creek Complex in Hamilton County, Florida. The UTM coordinates are 320.860 Km E and 3,369.750 Km N.

Construction shall be in accordance with the permit application and plans, documents, and drawings, except as otherwise noted on pages 5 through 8 "Specific Conditions", listed below.

1. Application to Construct Air Pollution Sources, DER Form 17-1.122(16).
2. Occidental Chemical's letters of June 18, 1981, November 24, 1981, December 7, 1981, April 26, 1981, June 25, 1982, September 15, 1982, (Responses to technical discrepancies).

PERMITTEE: Occidental Chemical  
Company

I. D. Number:  
Permit Number: AC 24-56209  
Date of Issue:  
Expiration Date: January 30, 1984

**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 therefor 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: Occidental Chemical I. D. Number:  
Company Permit Number: AC 24-56209  
Date of Issue:  
Expiration Date: January 30, 1984

**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;
- 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.

PERMITTEE: Occidental Chemical  
Company

I. D. Number:  
Permit Number: AC 24-56209  
Date of Issue:  
Expiration Date: January 30, 1984

**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) 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.

**PERMITTEE:** Occidental Chemical I. D. Number:  
Company Permit Number: AC 24-56209  
Date of Issue:  
Expiration Date: January 30, 1984

**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:**

Sulfuric Acid Plant "E"

1. Maximum production rate will be 2500 tons of 100 percent H<sub>2</sub>SO<sub>4</sub> per day for each sulfuric acid plant.
2. Emission of sulfur dioxide from the sulfuric acid plant shall not exceed 416.7 pounds per hour at the maximum allowable operating rate of 104.2 tons per hour of 100% H<sub>2</sub>SO<sub>4</sub>. At lower operating rates, the emissions shall not exceed 4 pounds per ton of 100% H<sub>2</sub>SO<sub>4</sub> produced.

PERMITTEE: Occidental Chemical  
Company

I. D. Number:  
Permit/Number: AC 24-65209  
Date of Issue:  
Expiration Date: January 30, 1984

**SPECIFIC CONDITIONS:**

3. Emission of acid mist from the sulfuric acid plant shall not exceed 15.6 pounds per hour at the maximum allowable operating rate of 104.2 tons per hour of 100% H<sub>2</sub>SO<sub>4</sub>. At lower operating rates, the emissions shall not exceed 0.15 pounds per ton 100% H<sub>2</sub>SO<sub>4</sub>.
4. A continuous monitoring system for the measurement of sulfur dioxide shall be installed, calibrated, maintained, and operated by the applicant. The pollutant gas used to prepare calibration gas mixture under paragraph 2.1 Performance Specification 2 and for calibration checks under 60.13(d) to this part, shall be sulfur dioxide (SO<sub>2</sub>). Reference Method 8 shall be used for conducting monitoring system performance evaluations under 60.13(c) except that only the sulfur dioxide portion of the Method 8 results shall be used. The span shall be set at 1000 ppm of sulfur dioxide.
5. The applicant shall establish a conversion factor for the purpose of converting monitoring data into units of the applicable standard (kg/metric ton, lb/short ton). The conversion factor shall be determined, as set forth in Section 60.84(b) Emission Monitoring. Other EPA and State approved method may be substituted for those specified in 40 CFR, Subpart H, 60.84(b).
6. The applicant shall record all conversion factors and values under paragraph (b) or (d) as set forth in 60.84 Subpart H - Standards of Performance for Sulfuric Acid Plant.
7. For the purpose of report under 60.7(c), periods of excess emission shall be all three-hour periods (or the arithmetic average of three consecutive one-hour periods) during which the integrated average sulfur dioxide emissions exceed the applicable standards under 60.82.
8. The applicant shall comply with all requirements of 40 CFR 60, Subpart H, Standards of Performance for sulfuric acid plants.



PERMITTEE: Occidental Chemical I. D. Number:  
Company Permit/Number: AC 24-56209  
Date of Issue:  
Expiration Date: January 30, 1984

**SPECIFIC CONDITIONS:**

9. Compliance with all emission limits shall be determined by performance tests scheduled in accordance with the attached General Conditions. Except as provided under 40 CFR 60.8(b), the performance tests shall be conducted in accordance with the provisions of the following reference methods which are described in Appendix A of 40 CFR 60:
- a. Method 1 for sample and velocity traverses;
  - b. Method 2 for volumetric flow rate;
  - c. Method 3 for gas analysis;
  - d. Method 7 for nitrogen oxides
  - e. Method 8 for concentration of SO<sub>2</sub> and acid mist;  
and
  - f. Method 9 for visible emissions.

A compliance test shall consist of the average of three consecutive runs. The maximum sample time and volume per run will be as specified in the NSPS (40 CFR 60.85). The facility shall operate within 10 percent of maximum capacity during sampling. The parameters for the operating rate and control equipment variables and all continuous monitoring results shall be recorded during compliance testing and made a part of the test report. The Department will be notified 30 days in advance of the compliance test.

Performance tests for nitrogen oxides to determine emission compliance status shall be requested by the Department when deemed necessary.

10. Visible emissions from the sulfuric acid plant shall not exceed 10% opacity.
11. This permit replaces operating permit No. AO 24-34847. The applicant shall return this operating permit to the Department's Northeast District office within three (3) months of start-up of the unit.
12. The applicant will demonstrate compliance with the condition of the construction permit and submit a complete application for an operating permit to the Department's Northeast District office prior to 90 days of the expiration date of the construction permit. The permittee may continue to operate in compliance with all terms of the construction permit until its expiration date or issuance of an operating permit.

PERMITTEE: Occidental Chemical I. D. Number:  
Company Permit Number: AC 24-56209  
Date of Issue:  
Expiration Date: January 30, 1984

**SPECIFIC CONDITIONS:**

13. Upon obtaining an operating permit, the applicant will be required to submit periodic test reports on the actual operation and emissions of the facility.
14. Stack sampling facilities will include the eyebolt and angle described in Chapter 17-2.700, FAC.
15. The plant shall be allowed to operate continuously (8736 hours per year).
16. The source shall comply with the provisions and requirements of the attached general conditions.

Issued this 13 day of May, 1983.

**STATE OF FLORIDA DEPARTMENT OF  
ENVIRONMENTAL REGULATION**

  
\_\_\_\_\_  
VICTORIA J. TSCHINKEL, Secretary

\_\_\_ pages attached.

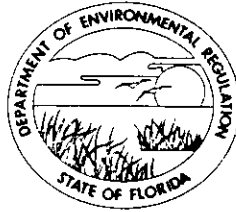
Table 2

## ALLOWABLE EMISSION LIMITS

SOURCE	POLLUTANT EMISSION							BASIS
	SO <sub>2</sub>	PM	Mist	NO <sub>x</sub>	CO	VOC		
"E" Sulfuric Acid Plant Standard	4 lb/ton 100% acid	--	0.15 lb/ton 100% acid	---	---	---	NSPS and BACT	
Emission Rate(lb/hr)	416.7	--	15.6	14.8	0.1	---		
"F" Sulfuric Acid Plant Standard	4 lb/ton 100% acid	--	0.15 lb/ton 100% acid	---	---	---	NSPS and BACT	
Emission Rate(lb/hr)	416.7	--	15.6	14.8	0.1	---		
"E" Auxiliary Boiler Emission Rate	1.1 lb/10 <sup>6</sup> BTU heat input and 170.7 lb/hr	--	-----	---	---	---	BACT and Emission rates as estimated by the applicant	
		13.9	-----	64	5.3	1.1		

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

**PERMITTEE:**

Occidental Chemical Company  
P. O. Box 300  
White Springs, Florida 32096

Permit Number: AC 24-56210  
Date of Issue:  
Expiration Date: January 30, 1984  
County: Hamilton  
Latitude/Longitude: 30° 26' 56"  
82° 51' 40"  
Project: 156 MMBTU/hr Auxiliary  
Auxiliary Boiler "E"

This permit is issued under the provisions of Chapter(s) 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, use of fuel with 1.0 percent sulfur, of a 156 MMBTU/hr auxiliary boiler "E" located at Occidental Chemical Swift Creek complex in Hamilton County, Florida. The UTM coordinates are 321.300 Km E and 3,369.830 Km N.

Construction shall be in accordance with the permit application and plans, documents, and drawings, except as otherwise noted on pages 5 through 7 "Specific Conditions", listed below.

1. Application to Construct Air Pollution Sources, DER Form 17-1.122(16).
2. Occidental Chemical's letters of June 18, 1981, November 24, 1981, December 7, 1981, April 26, 1981, June 25, 1982, September 15, 1982, (Responses to technical discrepancies).

PERMITTEE: Occidental Chemical  
Company

I. D. Number:

Permit Number: AC 24-56210

Date of Issue:

Expiration Date: January 30, 1984

**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 therefor 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: Occidental Chemical I. D. Number:  
Company Permit Number: AC 24-56210  
Date of Issue:  
Expiration Date: January 30, 1984

**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;
- 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.

PERMITTEE: Occidental Chemical  
Company

I. D. Number:  
Permit Number: AC 24-56210  
Date of Issue:  
Expiration Date: January 30, 1984

**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) 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.

PERMITTEE: Occidental Chemical I. D. Number:  
Company Permit Number: AC 24-56210  
Date of Issue:  
Expiration Date: January 30, 1984

**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. The auxiliary boiler shall be allowed to operate 97.5 percent of the time (8,518 hours per year). Maximum steam production shall be 125,000 lb/hr and maximum heat input shall be 156 MMBTU/hr.
- 2. The boiler will be fired with natural gas, and No. 6 fuel oil. Emissions shall not exceed the allowable emission listed in Table II of the Preliminary Determination for SO<sub>2</sub>, NO<sub>x</sub>, PM, VOC, and CO.



PERMITTEE: Occidental Chemical  
Company

I. D. Number:  
Permit/Number: AC 24-65210  
Date of Issue:  
Expiration Date: January 30, 1984

**SPECIFIC CONDITIONS:**

3. The sulfur content of fuel oil fired in the boiler shall not exceed 1.0 percent.
4. Compliance with all allowable emission limits (Table II) shall be determined by performance tests scheduled in accordance with the attached General Conditions. Except as provided under 40 CFR 60.8(b), the performance tests shall be in accordance with the provisions of the following reference method in Appendix A of 40 CFR 60 or other State approved methods.
  - a. Method 1. Sample and Velocity Traverses
  - b. Method 2. Volumetric Flow Rate
  - c. Method 3. Gas Analysis
  - d. Method 5. Determination of Particulate Emissions for Stationary Sources
  - e. Method 6. Determination of Sulfur Dioxide Emissions from Stationary Sources
  - f. Method 7. Determination of Nitrogen Oxide Emissions from Stationary Sources
  - g. Method 9. Determination of the Opacity of Emissions from Stationary Sources
  - h. Method 10. Determination of Carbon Monoxide Emissions from Stationary Sources.

A compliance test shall consist of the average of three consecutive runs. The boiler shall operate within 10 percent of maximum capacity during sampling, using the fuel that most likely will emit the greater quantity of pollutants being sampled. The Department shall be notified 30 days in advance of the compliance test.

5. Performance tests for NO<sub>x</sub>, and CO to determine emission compliance status shall be requested by the Department when deemed necessary.
6. The opacity of the boiler flue gases shall not exceed 20 percent except for one six-minute period per hour during which the opacity shall not exceed 27 percent.
7. The applicant should report any delay in modification of this unit to the Department.

PERMITTEE: Occidental Chemical I. D. Number:  
Company Permit Number: AC 24-56210  
Date of Issue:  
Expiration Date: January 30, 1984

**SPECIFIC CONDITIONS:**

8. This permit replaces operating permit No. AO24-34846. The applicant shall return any current operating permit from the boiler to the Department's Northeast District office within three (3) months of modification of the unit.
9. The applicant will demonstrate compliance with the condition of the construction permit and submit a complete application for an operating permit to the Department's Northeast District office prior to 90 days of the expiration date of the construction permit. The permittee may continue to operate in compliance with all terms of the construction permit until the expiration date or issuance of an operating permit.
10. Upon obtaining an operating permit, the applicant will be required to submit periodic reports on the actual operation and emission of the facility. These reports will give emission test data, emission test results, hours of operation, maximum and average fuel oil consumption and sulfur content.
11. Stack sampling facilities will include the eyebolt and angle described in Chapter 17-2.700 FAC.
12. The source shall comply with the provisions and requirements of the attached general conditions.

Issued this 12 day of May, 1983.

STATE OF FLORIDA DEPARTMENT OF  
ENVIRONMENTAL REGULATION

  
\_\_\_\_\_  
VICTORIA J. TSCHINKEL, Secretary

\_\_\_ pages attached.

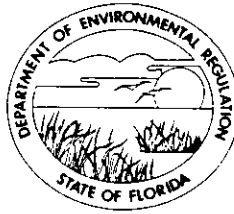
Table 2

## ALLOWABLE EMISSION LIMITS

SOURCE	POLLUTANT EMISSION							BASIS
	SO <sub>2</sub>	PM	Mist	NO <sub>x</sub>	CO	VOC		
"E" Sulfuric Acid Plant Standard	4 lb/ton 100% acid	--	0.15 lb/ton 100% acid	---	---	---	NSPS and BACT	
Emission Rate(lb/hr)	416.7	--	15.6	14.8	0.1	---		
"F" Sulfuric Acid Plant Standard	4 lb/ton 100% acid	--	0.15 lb/ton 100% acid	---	---	---	NSPS and BACT	
Emission Rate(lb/hr)	416.7	--	15.6	14.8	0.1	---		
"E" Auxiliary Boiler Emission Rate	1.1 lb/10 <sup>6</sup> BTU heat input and 170.7 lb/hr	--	----	---	---	---	BACT and Emission rates as estimated by the applicant	
		13.9	----	64	5.3	1.1		

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

**PERMITTEE:**

Occidental Chemical Company  
P. O. Box 300  
White Springs, Florida 32096

Permit Number: AC 24-56211  
Date of Issue:  
Expiration Date: January 30, 1984  
County: Hamilton  
Latitude/Longitude: 30° 26' 29"  
82° 51' 56"  
Project: Sulfuric Acid Plant "E"

This permit is issued under the provisions of Chapter(s) 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 2500 TPD double absorption type Sulfuric Acid Plant located at Occidental Chemical Swift Creek Complex in Hamilton County, Florida. The UTM coordinates are 321.110 Km E and 3,369.800 Km N.

Construction shall be in accordance with the permit application and plans, documents, and drawings, except as otherwise noted on pages 5 through 8 "Specific Conditions", listed below.

1. Application to Construct Air Pollution Sources, DER Form 17-1.122(b).
2. Occidental Chemical's letters of June 18, 1981, November 24, 1981, December 7, 1981, April 26, 1981, June 25, 1982, September 15, 1982, (Responses to technical discrepancies).

PERMITTEE: Occidental Chemical  
Company

I. D. Number:

Permit Number: AC 24-56211

Date of Issue:

Expiration Date: January 30, 1984

**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 therefor 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:** Occidental Chemical I. D. Number:  
Company Permit Number: AC 24-56211  
Date of Issue:  
Expiration Date: January 30, 1984

**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;
- 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.

PERMITTEE: Occidental Chemical I. D. Number:  
Company Permit Number: AC 24-56211  
Date of Issue:  
Expiration Date: January 30, 1984

**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) 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.

PERMITTEE: Occidental Chemical I. D. Number:  
Company Permit Number: AC 24-56211  
Date of Issue:  
Expiration Date: January 30, 1984

**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:**

Sulfuric Acid Plant "E"

1. Maximum production rate will be 2500 tons of 100 percent H<sub>2</sub>SO<sub>4</sub> per day for each sulfuric acid plant.
2. Emission of sulfur dioxide from the sulfuric acid plant shall not exceed 416.7 pounds per hour at the maximum allowable operating rate of 104.2 tons per hour of 100% H<sub>2</sub>SO<sub>4</sub>. At lower operating rates, the emissions shall not exceed 4 pounds per ton of 100% H<sub>2</sub>SO<sub>4</sub> produced.



PERMITTEE: Occidental Chemical  
Company

I. D. Number:  
Permit/Number: AC 24-56211  
Date of Issue:  
Expiration Date: January 30, 1984

**SPECIFIC CONDITIONS:**

3. Emission of acid mist from the sulfuric acid plant shall not exceed 15.6 pounds per hour at the maximum allowable operating rate of 104.2 tons per hour of 100% H<sub>2</sub>SO<sub>4</sub>. At lower operating rates, the emissions shall not exceed 0.15 pounds per ton 100% H<sub>2</sub>SO<sub>4</sub>.
4. A continuous monitoring system for the measurement of sulfur dioxide shall be installed, calibrated, maintained, and operated by the applicant. The pollutant gas used to prepare calibration gas mixture under paragraph 2.1 Performance Specification 2 and for calibration checks under 60.13(d) to this part, shall be sulfur dioxide (SO<sub>2</sub>). Reference Method 8 shall be used for conducting monitoring system performance evaluations under 60.13(c) except that only the sulfur dioxide portion of the Method 8 results shall be used. The span shall be set at 1000 ppm of sulfur dioxide.
5. The applicant shall establish a conversion factor for the purpose of converting monitoring data into units of the applicable standard (kg/metric ton, lb/short ton). The conversion factor shall be determined, as set forth in Section 60.84(b) Emission Monitoring. Other EPA and State approved method may be substituted for those specified in 40 CFR, Subpart H, 60.84(b).
6. The applicant shall record all conversion factors and values under paragraph (b) or (d) as set forth in 60.84 Subpart H - Standards of Performance for Sulfuric Acid Plant.
7. For the purpose of report under 60.7(c), periods of excess emission shall be all three-hour periods (or the arithmetic average of three consecutive one-hour periods) during which the integrated average sulfur dioxide emissions exceed the applicable standards under 60.82.
8. The applicant shall comply with all requirements of 40 CFR 60, Subpart H, Standards of Performance for sulfuric acid plants.

PERMITTEE: Occidental Chemical  
Company

I. D. Number:

Permit/Number: AC 24-56211

Date of Issue:

Expiration Date: January 30, 1984

**SPECIFIC CONDITIONS:**

9. Compliance with all emission limits shall be determined by performance tests scheduled in accordance with the attached General Conditions. Except as provided under 40 CFR 60.8(b), the performance tests shall be conducted in accordance with the provisions of the following reference methods which are described in Appendix A of 40 CFR 60:

- a. Method 1 for sample and velocity traverses;
- b. Method 2 for volumetric flow rate;
- c. Method 3 for gas analysis;
- d. Method 7 for nitrogen oxides
- e. Method 8 for concentration of SO<sub>2</sub> and acid mist;  
and
- f. Method 9 for visible emissions.

A compliance test shall consist of the average of three consecutive runs. The maximum sample time and volume per run will be as specified in the NSPS (40 CFR 60.85). The facility shall operate within 10 percent of maximum capacity during sampling. The parameters for the operating rate and control equipment variables and all continuous monitoring results shall be recorded during compliance testing and made a part of the test report. The Department will be notified 30 days in advance of the compliance test.

Performance tests for nitrogen oxides to determine emission compliance status shall be requested by the Department when deemed necessary.

10. Visible emissions from the sulfuric acid plant shall not exceed 10% opacity.
11. This permit replaces operating permit No. AO 24-34847. The applicant shall return this operating permit to the Department's Northeast District office within three (3) months of start-up of the unit.
12. The applicant will demonstrate compliance with the condition of the construction permit and submit a complete application for an operating permit to the Department's Northeast District office prior to 90 days of the expiration date of the construction permit. The permittee may continue to operate in compliance with all terms of the construction permit until its expiration date or issuance of an operating permit.

PERMITTEE: Occidental Chemical I. D. Number:  
Company Permit Number: AC 24-56211  
Date of Issue:  
Expiration Date: January 30, 1984

**SPECIFIC CONDITIONS:**

13. Upon obtaining an operating permit, the applicant will be required to submit periodic test reports on the actual operation and emissions of the facility.
14. Stack sampling facilities will include the eyebolt and angle described in Chapter 17-2.700, FAC.
15. The plant shall be allowed to operate continuously (8736 hours per year).
16. The source shall comply with the provisions and requirements of the attached general conditions.

Issued this 17 day of May, 1983.

**STATE OF FLORIDA DEPARTMENT OF  
ENVIRONMENTAL REGULATION**

  
\_\_\_\_\_  
VICTORIA J. TSCHINKEL, Secretary

\_\_\_ pages attached.

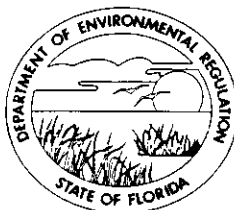
Table 2

## ALLOWABLE EMISSION LIMITS

SOURCE	POLLUTANT EMISSION							BASIS
	SO <sub>2</sub>	PM	Mist	NO <sub>x</sub>	CO	VOC		
"E" Sulfuric Acid Plant Standard	4 lb/ton 100% acid	--	0.15 lb/ton 100% acid	---	---	---	NSPS and BACT	
Emission Rate(lb/hr)	416.7	--	15.6	14.8	0.1	---		
"F" Sulfuric Acid Plant Standard	4 lb/ton 100% acid	--	0.15 lb/ton 100% acid	---	---	---	NSPS and BACT	
Emission Rate(lb/hr)	416.7	--	15.6	14.8	0.1	---		
"E" Auxiliary Boiler Emission Rate	1.1 lb/10 <sup>6</sup> BTU heat input and 170.7 lb/hr	--	----	----	---	---	BACT and Emission rates as estimated by the applicant	
		13.9	----	64	5.3	1.1		

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

**PERMITTEE:**

Occidental Chemical Company  
P. O. Box 300  
White Springs, Florida 32096

Permit Number: AC 24-56212  
Date of Issue:  
Expiration Date: January 30, 1984  
County: Hamilton  
Latitude/Longitude: 30° 26' 27"  
82° 47' 16"  
Project: 160 MMBTU/hr Auxiliary  
Auxiliary Boiler "B"

This permit is issued under the provisions of Chapter(s) 403  
17-2 and 17-4, 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, use of fuel with 1.0 percent sulfur, of a 160  
MMBTU/hr auxiliary boiler "B" located at Occidental Chemical  
Suwannee River complex in Hamilton County, Florida. The UTM  
coordinates are 328.320 Km E and 3,368.810 Km N.

Construction shall be in accordance with the permit application  
and plans, documents, and drawings, except as otherwise noted on  
pages 5 through 7 "Specific Conditions", listed below.

1. Application to Construct Air Pollution Sources, DER Form  
17-1.122(16).
2. Occidental Chemical's letters of June 18, 1981, November 24,  
1981, December 7, 1981, April 26, 1981, June 25, 1982,  
September 15, 1982, (Responses to technical discrepancies).

PERMITTEE: Occidental Chemical  
Company

I. D. Number:

Permit Number: AC 24-56212

Date of Issue:

Expiration Date: January 30, 1984

**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 therefor 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: Occidental Chemical I. D. Number:  
Company Permit Number: AC 24-56212  
Date of Issue:  
Expiration Date: January 30, 1984

**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;
- 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.

PERMITTEE: Occidental Chemical I. D. Number:  
Company Permit Number: AC 24-56212  
Date of Issue:  
Expiration Date: January 30, 1984

**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) 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.



**PERMITTEE:** Occidental Chemical I. D. Number:  
Company Permit Number: AC 24-56212  
Date of Issue:  
Expiration Date: January 30, 1984

**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. The maximum operating rate for boiler "B" shall not exceed 60% of rated capacity (96 MMBTU/hr heat input) when sulfuric acid plants "C" and "D" will be operating at 100% capacity. Auxiliary boiler "B" shall be allowed to operate at 100% of rated capacity (160 MMBTU/hr heat input) when either the "C" or "D" sulfuric acid plant is shut down.
2. The boiler will be fired with natural gas, and No. 6 fuel oil. Emissions shall not exceed the allowable emission listed in Table II of the Preliminary Determination for SO<sub>2</sub>, NO<sub>x</sub>, PM, VOC, and CO.

PERMITTEE: Occidental Chemical  
Company

I. D. Number:  
Permit/Number: AC 24-56212  
Date of Issue:  
Expiration Date: July 30, 1983

**SPECIFIC CONDITIONS:**

3. The sulfur content of fuel oil fired in the boiler shall not exceed 1.0 percent.
4. Auxiliary boiler "B" shall be allowed to operate continuously (8760 hours per year).
5. Compliance with all allowable emission limits (Table II) shall be determined by performance tests scheduled in accordance with the attached General Conditions. Except as provided under 40 CFR 60.8(b), the performance tests shall be in accordance with the provisions of the following reference method in Appendix A of 40 CFR 60 or other State approved methods.
  - a. Method 1. Sample and Velocity Traverses
  - b. Method 2. Volumetric Flow Rate
  - c. Method 3. Gas Analysis
  - d. Method 5. Determination of Particulate Emissions for Stationary Sources
  - e. Method 6. Determination of Sulfur Dioxide Emissions from Stationary Sources
  - f. Method 7. Determination of Nitrogen Oxide Emissions from Stationary Sources
  - g. Method 9. Determination of the Opacity of Emissions from Stationary Sources
  - h. Method 10. Determination of Carbon Monoxide Emissions from Stationary Sources.

A compliance test shall consist of the average of three consecutive runs. The boiler shall operate within 10 percent of maximum capacity during sampling, using the fuel that most likely will emit the greater quantity of pollutants being sampled. The Department shall be notified 30 days in advance of the compliance test.

6. Performance tests for  $\text{NO}_x$ , and CO to determine emission compliance status shall be requested by the Department when deemed necessary.
7. The opacity of the boiler flue gases shall not exceed 20 percent except for one six-minute period per hour during which the opacity shall not exceed 27 percent.
8. The applicant should report any delay in modification of this unit to the Department.

PERMITTEE: Occidental Chemical I. D. Number:  
Company Permit Number: AC 24-56212  
Date of Issue:  
Expiration Date: January 30, 1984

**SPECIFIC CONDITIONS:**

9. This permit replaces operating permit No. AO24-34186. The applicant shall return any current operating permit from the boiler to the Department's Northeast District office within three (3) months of modification of the unit.
10. The applicant will demonstrate compliance with the condition of the construction permit and submit a complete application for an operating permit to the Department's Northeast District office prior to 90 days of the expiration date of the construction permit. The permittee may continue to operate in compliance with all terms of the construction permit until the expiration date or issuance of an operating permit.
11. Upon obtaining an operating permit, the applicant will be required to submit periodic reports on the actual operation and emission of the facility. These reports will give emission test data, emission test results, hours of operation, maximum and average fuel oil consumption and sulfur content.
12. Stack sampling facilities will include the eyebolt and angle described in Chapter 17-2.700 FAC.
13. The source shall comply with the provisions and requirements of the attached general conditions.

Issued this 17 day of May, 1983

**STATE OF FLORIDA DEPARTMENT OF  
ENVIRONMENTAL REGULATION**

  
\_\_\_\_\_  
VICTORIA J. TSCHINKEL, Secretary

\_\_\_ pages attached.

Table 2

ALLOWABLE EMISSIONS<sup>(1)</sup>

<u>SOURCE/FUEL</u>	<u>PM</u>		<u>POLLUTANT</u>		<u>NO<sub>x</sub></u>		<u>CO</u>		<u>VOC</u>	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
Boiler B Oil (2)	14.2	62.3	174.8	765.8	65.5	287.2	5.5	23.9	1.1	4.8
This boiler shall be allowed to operate 60% of rated capacity (Specific Condition No. 1).										
Boiler C*										
Gas	1.2	5.3	0.1	0.3	21.0	92.0	2.0	8.9	0.4	1.6
Oil (2)	10.7	46.7	128.7	563.9	49.2	215.5	4.1	18.0	0.8	3.6
COM (3)	3.8	16.6	130.6	572.1	54.6	239.2	4.2	18.4	1.0	4.5
Boiler D*										
Gas	1.2	5.3	0.1	0.3	21.0	92.0	2.0	9	0.4	2
Oil (2)	10.7	47	128.7	564	49.2	215	4.1	18	0.8	4
#2 DAP Dryer Oil (4)	46	193	11.8	51.5						

(1) Allowable Emissions as estimated by the applicant based on an operating time of 8760 hours per year

(2) SO<sub>2</sub> emission limit shall not exceed 1.1 lb/MMBTU heat input (Fuel oil with 1% sulfur content).

(3) Coal-Oil mix (COM) with 0.9% sulfur content.

(4) Fuel oil with 1.5% sulfur content. (SO<sub>2</sub> emission limit shall not exceed 0.2 lb/ton DAP).

Fluoride emissions from the DAP Plant shall not exceed 1.74 lb/hr and 0.06#F/Ton P<sub>2</sub>O<sub>5</sub>.

\*Boiler "C" shares a common stack with auxiliary boiler "D".

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

**PERMITTEE:**

Occidental Chemical Company  
P. O. Box 300  
White Springs, Florida 32096

Permit Number: AC 24-56213  
Date of Issue:  
Expiration Date: January 30, 1984  
County: Hamilton  
Latitude/Longitude: 30° 26' 27"  
82° 47' 16"  
Project: 120 MMBTU/hr Auxiliary  
Auxiliary Boiler "D"

This permit is issued under the provisions of Chapter(s) 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, use of fuel with 1.0 percent sulfur, of a 120 MMBTU/hr auxiliary boiler "D" located at Occidental Chemical Suwannee River complex in Hamilton County, Florida. The UTM coordinates are 328.320 Km E and 3,368.810 Km N.

Construction shall be in accordance with the permit application and plans, documents, and drawings, except as otherwise noted on pages 5 through 7 "Specific Conditions", listed below.

1. Application to Construct Air Pollution Sources, DER Form 17-1.122(16).
2. Occidental Chemical's letters of June 18, 1981, November 24, 1981, December 7, 1981, April 26, 1981, June 25, 1982, September 15, 1982, (Responses to technical discrepancies).

PERMITTEE: Occidental Chemical  
Company

I. D. Number:  
Permit Number: AC 24-56213  
Date of Issue:  
Expiration Date: January 30, 1984

**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 therefor 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: Occidental Chemical I. D. Number:  
Company Permit Number: AC 24-56213  
Date of Issue:  
Expiration Date: January 30, 1984

**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;
- 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.

PERMITTEE: Occidental Chemical  
Company

I. D. Number:  
Permit Number: AC 24-56213  
Date of Issue:  
Expiration Date: January 30, 1984

**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) 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.



PERMITTEE: Occidental Chemical I. D. Number:  
Company Permit Number: AC 24-56213  
Date of Issue:  
Expiration Date: January 30, 1984

**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. The maximum operating rate for boiler "D" shall not exceed 120 MMBTU/hr heat input.
2. Auxiliary boiler "D" shall be allowed to operate continuously. (8760 hours per year).
3. The boiler will be fired with natural gas, and No. 6 fuel oil. Emissions shall not exceed the allowable emission listed in Table II of the Preliminary Determination for SO<sub>2</sub>, NO<sub>x</sub>, PM, VOC, and CO.

PERMITTEE: Occidental Chemical  
Company

I. D. Number:

Permit/Number: AC 24-65213

Date of Issue:

Expiration Date: January 30, 1984

**SPECIFIC CONDITIONS:**

4. The sulfur content of fuel oil fired in the boiler shall not exceed 1.0 percent.
5. Compliance with all allowable emission limits (Table II) shall be determined by performance tests scheduled in accordance with the attached General Conditions. Except as provided under 40 CFR 60.8(b), the performance tests shall be in accordance with the provisions of the following reference method in Appendix A of 40 CFR 60 or other State approved methods.
  - a. Method 1. Sample and Velocity Traverses
  - b. Method 2. Volumetric Flow Rate
  - c. Method 3. Gas Analysis
  - d. Method 5. Determination of Particulate Emissions for Stationary Sources
  - e. Method 6. Determination of Sulfur Dioxide Emissions from Stationary Sources
  - f. Method 7. Determination of Nitrogen Oxide Emissions from Stationary Sources
  - g. Method 9. Determination of the Opacity of Emissions from Stationary Sources
  - h. Method 10. Determination of Carbon Monoxide Emissions from Stationary Sources.

A compliance test shall consist of the average of three consecutive runs. The boiler shall operate within 10 percent of maximum capacity during sampling, using the fuel that most likely will emit the greater quantity of pollutants being sampled. The Department shall be notified 30 days in advance of the compliance test.

6. Performance tests for NO<sub>x</sub>, and CO to determine emission compliance status shall be requested by the Department when deemed necessary.
7. The opacity of the boiler flue gases shall not exceed 20 percent except for one six-minute period per hour during which the opacity shall not exceed 27 percent.
8. The applicant should report any delay in modification of this unit to the Department.

PERMITTEE: Occidental Chemical I. D. Number:  
Company Permit Number: AC 24-56213  
Date of Issue:  
Expiration Date: January 30, 1984

**SPECIFIC CONDITIONS:**

9. This permit replaces operating permit No. A024-21059. The applicant shall return any current operating permit from the boiler to the Department's Northeast District office within three (3) months of modification of the unit.
10. The applicant will demonstrate compliance with the condition of the construction permit and submit a complete application for an operating permit to the Department's Northeast District office prior to 90 days of the expiration date of the construction permit. The permittee may continue to operate in compliance with all terms of the construction permit until the expiration date or issuance of an operating permit.
11. Upon obtaining an operating permit, the applicant will be required to submit periodic reports on the actual operation and emission of the facility. These reports will give emission test data, emission test results, hours of operation, maximum and average fuel oil consumption and sulfur content.
12. Stack sampling facilities will include the eyebolt and angle described in Chapter 17-2.700 FAC.
13. The source shall comply with the provisions and requirements of the attached general conditions.

Issued this 11 day of Mar., 1983

**STATE OF FLORIDA DEPARTMENT OF  
ENVIRONMENTAL REGULATION**

  
\_\_\_\_\_  
VICTORIA J. TSCHINKEL, Secretary

\_\_\_\_\_ pages attached.

Table 2

ALLOWABLE EMISSIONS<sup>(1)</sup>

<u>SOURCE/FUEL</u>	<u>PM</u>		<u>POLLUTANT</u>		<u>NO<sub>x</sub></u>		<u>CO</u>		<u>VOC</u>	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
Boiler B Oil (2)	14.2	62.3	174.8	765.8	65.5	287.2	5.5	23.9	1.1	4.8
This boiler shall be allowed to operate 60% of rated capacity (Specific Condition No. 1).										
Boiler C*										
Gas	1.2	5.3	0.1	0.3	21.0	92.0	2.0	8.9	0.4	1.6
Oil (2)	10.7	46.7	128.7	563.9	49.2	215.5	4.1	18.0	0.8	3.6
COM (3)	3.8	16.6	130.6	572.1	54.6	239.2	4.2	18.4	1.0	4.5
Boiler D*										
Gas	1.2	5.3	0.1	0.3	21.0	92.0	2.0	9	0.4	2
Oil (2)	10.7	47	128.7	564	49.2	215	4.1	18	0.8	4
#2 DAP Dryer Oil (4)	46	193	11.8	51.5						

(1) Allowable Emissions as estimated by the applicant based on an operating time of 8760 hours per year

(2) SO<sub>2</sub> emission limit shall not exceed 1.1 lb/MMBTU heat input (Fuel oil with 1% sulfur content).

(3) Coal-Oil mix (COM) with 0.9% sulfur content.

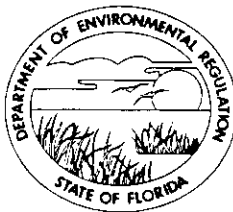
(4) Fuel oil with 1.5% sulfur content. (SO<sub>2</sub> emission limit shall not exceed 0.2 lb/ton DAP).

Fluoride emissions from the DAP Plant shall not exceed 1.74 lb/hr and 0.06#F/Ton P<sub>2</sub>O<sub>5</sub>.

\*Boiler "C" shares a common stack with auxiliary boiler "D".

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

**PERMITTEE:**

Occidental Chemical Company  
P. O. Box 300  
White Springs, Florida 32096

Permit Number: AC 24-56214  
Date of Issue:  
Expiration Date: January 30, 1984  
County: Hamilton  
Latitude/Longitude: 30° 26' 27"  
82° 47' 16"  
Project: 120 MMBTU/hr Auxiliary  
Auxiliary Boiler "C"

This permit is issued under the provisions of Chapter(s) 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, use of fuel with 1.0 percent sulfur, of a 120 MMBTU/hr auxiliary boiler "C" located at Occidental Chemical Suwannee River complex in Hamilton County, Florida. The UTM coordinates are 328.320 Km E and 3,368.810 Km N.

Construction shall be in accordance with the permit application and plans, documents, and drawings, except as otherwise noted on pages 5 through 7 "Specific Conditions", listed below.

1. Application to Construct Air Pollution Sources, DER Form 17-1.122(16).
2. Occidental Chemical's letters of June 18, 1981, November 24, 1981, December 7, 1981, April 26, 1981, June 25, 1982, September 15, 1982, (Responses to technical discrepancies).

PERMITTEE: Occidental Chemical I. D. Number:  
Company Permit Number: AC 24-56214  
Date of Issue:  
Expiration Date: January 30, 1984

**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 therefor 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: Occidental Chemical I. D. Number:  
Company Permit Number: AC 24-56214  
Date of Issue:  
Expiration Date: January 30, 1984

**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;
- 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.

PERMITTEE: Occidental Chemical  
Company

I. D. Number:  
Permit Number: AC 24-56214  
Date of Issue:  
Expiration Date: January 30, 1984

**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) 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.



PERMITTEE: Occidental Chemical I. D. Number:  
Company Permit Number: AC 24-56214  
Date of Issue:  
Expiration Date: January 30, 1984

**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. The maximum operating rate for boiler "C" shall not exceed 120 MMBTU/hr heat input.
- 2. Auxiliary boiler "C" shall be allowed to operate continuously. (8760 hours per year).
- 3. The boiler will be fired with natural gas, and No. 6 fuel oil or a coal-oil mixture. Emissions shall not exceed the allowable emission listed in Table II of the Preliminary Determination for SO<sub>2</sub>, NO<sub>x</sub>, PM, VOC, and CO.

PERMITTEE: Occidental Chemical  
Company

I. D. Number:  
Permit/Number: AC 24-65214  
Date of Issue:  
Expiration Date: January 30, 1984

**SPECIFIC CONDITIONS:**

4. The sulfur content of fuel oil fired in the boiler shall not exceed 1.0 percent.
5. The sulfur content of the coal-oil mixture shall not exceed 0.9 percent.
6. Compliance with all allowable emission limits (Table II) shall be determined by performance tests scheduled in accordance with the attached General Conditions. Except as provided under 40 CFR 60.8(b), the performance tests shall be in accordance with the provisions of the following reference method in Appendix A of 40 CFR 60 or other State approved methods.
  - a. Method 1. Sample and Velocity Traverses
  - b. Method 2. Volumetric Flow Rate
  - c. Method 3. Gas Analysis
  - d. Method 5. Determination of Particulate Emissions for Stationary Sources
  - e. Method 6. Determination of Sulfur Dioxide Emissions from Stationary Sources
  - f. Method 7. Determination of Nitrogen Oxide Emissions from Stationary Sources
  - g. Method 9. Determination of the Opacity of Emissions from Stationary Sources
  - h. Method 10. Determination of Carbon Monoxide Emissions from Stationary Sources.

A compliance test shall consist of the average of three consecutive runs. The boiler shall operate within 10 percent of maximum capacity during sampling, using the fuel that most likely will emit the greater quantity of pollutants being sampled. The Department shall be notified 30 days in advance of the compliance test.

7. Performance tests for NO<sub>x</sub>, and CO to determine emission compliance status shall be requested by the Department when deemed necessary.
8. The opacity of the boiler flue gases shall not exceed 20 percent except for one six-minute period per hour during which the opacity shall not exceed 27 percent.
9. The applicant should report any delay in modification of this unit to the Department.

PERMITTEE: Occidental Chemical I. D. Number:  
Company Permit Number: AC 24-56214  
Date of Issue:  
Expiration Date: January 30, 1984

**SPECIFIC CONDITIONS:**

10. This permit replaces operating permit No. AO 24-21059. The applicant shall return any current operating permit from this boiler to the Department's Northeast District office within three (3) months of modification of the unit.
11. The applicant will demonstrate compliance with the condition of the construction permit and submit a complete application for an operating permit to the Department's Northeast District office prior to 90 days of the expiration date of the construction permit. The permittee may continue to operate in compliance with all terms of the construction permit until the expiration date or issuance of an operating permit.
12. Upon obtaining an operating permit, the applicant will be required to submit periodic reports on the actual operation and emission of the facility. These reports will give emission test data, emission test results, hours of operation, maximum and average fuel oil consumption and sulfur content.
13. Stack sampling facilities will include the eyebolt and angle described in Chapter 17-2.700 FAC.
14. The source shall comply with the provisions and requirements of the attached general conditions.

Issued this 17 day of May, 1983

STATE OF FLORIDA DEPARTMENT OF  
ENVIRONMENTAL REGULATION

  
\_\_\_\_\_  
VICTORIA J. TSCHINKEL, Secretary

\_\_\_ pages attached.

Table 2

ALLOWABLE EMISSIONS<sup>(1)</sup>

<u>SOURCE/FUEL</u>	<u>PM</u>		<u>POLLUTANT</u> <u>SO<sub>2</sub></u>		<u>NO<sub>x</sub></u>		<u>CO</u>		<u>VOC</u>	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
Boiler B Oil (2)	14.2	62.3	174.8	765.8	65.5	287.2	5.5	23.9	1.1	4.8
This boiler shall be allowed to operate 60% of rated capacity (Specific Condition No. 1).										
Boiler C*										
Gas	1.2	5.3	0.1	0.3	21.0	92.0	2.0	8.9	0.4	1.6
Oil (2)	10.7	46.7	128.7	563.9	49.2	215.5	4.1	18.0	0.8	3.6
COM (3)	3.8	16.6	130.6	572.1	54.6	239.2	4.2	18.4	1.0	4.5
Boiler D*										
Gas	1.2	5.3	0.1	0.3	21.0	92.0	2.0	9	0.4	2
Oil (2)	10.7	47	128.7	564	49.2	215	4.1	18	0.8	4
#2 DAP Dryer Oil (4)	46	193	11.8	51.5						

(1) Allowable Emissions as estimated by the applicant based on an operating time of 8760 hours per year.

(2) SO<sub>2</sub> emission limit shall not exceed 1.1 lb/MMBTU heat input (Fuel oil with 1% sulfur content).

(3) Coal-Oil mix (COM) with 0.9% sulfur content.

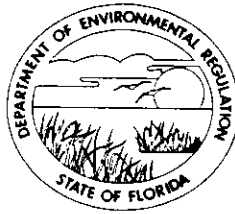
(4) Fuel oil with 1.5% sulfur content. (SO<sub>2</sub> emission limit shall not exceed 0.2 lb/ton DAP).

Fluoride emissions from the DAP Plant shall not exceed 1.74 lb/hr and 0.06#F/Ton P<sub>2</sub>O<sub>5</sub>.

\*Boiler "C" shares a common stack with auxiliary boiler "D".

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

**PERMITTEE:**

Occidental Chemical Company  
P. O. Box 300  
White Springs, Florida 32096

Permit Number: AC 24-56215  
Date of Issue:  
Expiration Date: January 30, 1984  
County: Hamilton  
Latitude/Longitude: 30° 26' 01"  
82° 47' 20"  
Project: 36 MMBTU/hr Dryer  
Diammonium Phosphate  
Plant #2

This permit is issued under the provisions of Chapter(s) 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 36 MMBTU/hr No. 2 diammonium phosphate dryer located at Occidental Chemical Suwannee River complex in Hamilton County, Florida. The UTM coordinates are 328.20 Km E and 3,368.82 Km N.

Construction shall be in accordance with the permit application and plans, documents, and drawings, except as otherwise noted on pages 5 through 7 "Specific Conditions", listed below.

1. Application to Construct Air Pollution Sources, DER Form 17-1.122(16).
2. Occidental Chemical's letters of June 18, 1981, November 24, 1981, December 7, 1981, April 26, 1981, June 25, 1982, September 15, 1982, (Responses to technical discrepancies).

PERMITTEE: Occidental Chemical  
Company

I. D. Number:

Permit Number: AC 24-56215

Date of Issue:

Expiration Date: January 30, 1984

**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 therefor 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: Occidental Chemical I. D. Number:  
Company Permit Number: AC 24-56215  
Date of Issue:  
Expiration Date: January 30, 1984

**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;
- 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.

PERMITTEE: Occidental Chemical I. D. Number:  
Company Permit Number: AC 24-56215  
Date of Issue:  
Expiration Date: January 30, 1984

**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) 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.



PERMITTEE: Occidental Chemical I. D. Number:  
Company Permit Number: AC 24-56215  
Date of Issue:  
Expiration Date: January 30, 1984

**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. The No. 2 DAP dryer shall be allowed to operate continuously (8760 hours per year) at up to 60 tons per hour DAP production.
2. The fuel used to fire the dryer will be natural gas or No. 6 fuel oil with a maximum sulfur content of 1.5 percent S. Maximum heat input shall be 36 MMBTU/hr.

PERMITTEE: Occidental Chemical  
Company

I. D. Number:  
Permit/Number: AC 24-65215  
Date of Issue:  
Expiration Date: January 30, 1984

**SPECIFIC CONDITIONS:**

3. Emissions from the DAP dryer shall not exceed the allowable emissions listed in Table II of the Preliminary Determination for SO<sub>2</sub>, PM, and Fluorine.
4. Compliance with all allowable emission limits (Table II) shall be determined by performance tests scheduled in accordance with the attached General Conditions. Except as provided under 40 CFR 60.8(b), the performance tests shall be in accordance with the provisions of the following reference method in Appendix A of 40 CFR 60 or other State approved methods.
  - a. Method 1. Sample and Velocity Traverses
  - b. Method 2. Volumetric Flow Rate
  - c. Method 3. Gas Analysis
  - d. Method 5. Determination of Particulate Emissions for Stationary Sources
  - e. Method 6. Determination of Sulfur Dioxide Emissions from Stationary Sources
  - f. Method 13 A or B. Determination of Total Fluoride Emissions from Stationary Sources.

A compliance test shall consist of the average of three consecutive runs. The Department will be notified 30 days in advance of the compliance test. The test will be conducted at 90 to 100 percent permitted production capacity while burning No. 6 fuel oil.

5. This permit replaces operating permit No. A024-33051. The applicant shall return this operating permit to the Northeast District office within three (3) months of start-up of the unit.
6. The applicant should report any delay in modification of this unit to the Department.
7. The applicant will demonstrate compliance with the condition of the construction permit and submit a complete application for an operating permit to the Department's Northeast District prior to 90 days of the expiration date of the construction permit. The permittee may continue to operate in compliance

PERMITTEE: Occidental Chemical I. D. Number:  
Company Permit Number: AC 24-56215  
Date of Issue:  
Expiration Date: January 30, 1984

**SPECIFIC CONDITIONS:**

- with all terms of the construction permit until the expiration date or issuance of an operating permit.
8. Upon obtaining an operating permit, the applicant will be required to submit periodic reports on the actual operation and emission of the facility. These reports will give emission test data, emission test results, hours of production, maximum and average production, fuel oil usage, average and maximum percent sulfur in oil, pressure drop across scrubber, pressure on scrubber header, and flow of water through scrubber.
  9. Stack sampling facilities will include the eyebolt and angle described in Chapter 17-2.700 FAC.
  10. The source shall comply with the provisions and requirements of the attached general conditions.

Issued this 19 day of May, 1983

STATE OF FLORIDA DEPARTMENT OF  
ENVIRONMENTAL REGULATION

  
\_\_\_\_\_  
VICTORIA J. TSCHINKEL, Secretary

\_\_\_ pages attached.

Table 2

ALLOWABLE EMISSIONS<sup>(1)</sup>

<u>SOURCE/FUEL</u>	<u>PM</u>		<u>POLLUTANT</u>		<u>NO<sub>x</sub></u>		<u>CO</u>		<u>VOC</u>	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
Boiler B Oil (2)	14.2	62.3	174.8	765.8	65.5	287.2	5.5	23.9	1.1	4.8
This boiler shall be allowed to operate 60% of rated capacity (Specific Condition No. 1).										
Boiler C*										
Gas	1.2	5.3	0.1	0.3	21.0	92.0	2.0	8.9	0.4	1.6
Oil (2)	10.7	46.7	128.7	563.9	49.2	215.5	4.1	18.0	0.8	3.6
COM (3)	3.8	16.6	130.6	572.1	54.6	239.2	4.2	18.4	1.0	4.5
Boiler D*										
Gas	1.2	5.3	0.1	0.3	21.0	92.0	2.0	9	0.4	2
Oil (2)	10.7	47	128.7	564	49.2	215	4.1	18	0.8	4
#2 DAP Dryer Oil (4)	46	193	11.8	51.5						

(1) Allowable Emissions as estimated by the applicant based on an operating time of 8760 hours per year

(2) SO<sub>2</sub> emission limit shall not exceed 1.1 lb/MMBTU heat input (Fuel oil with 1% sulfur content).

(3) Coal-Oil mix (COM) with 0.9% sulfur content.

(4) Fuel oil with 1.5% sulfur content. (SO<sub>2</sub> emission limit shall not exceed 0.2 lb/ton DAP).

Fluoride emissions from the DAP Plant shall not exceed 1.74 lb/hr and 0.06#F/Ton P<sub>2</sub>O<sub>5</sub>.

\*Boiler "C" shares a common stack with auxiliary boiler "D".

State of Florida  
DEPARTMENT OF ENVIRONMENTAL REGULATION  
INTEROFFICE MEMORANDUM

For Routing To District Offices And/Or To Other Than The Addressee		
To: _____	Loctn.: _____	
To: _____	Loctn.: _____	
To: _____	Loctn.: _____	
From: _____	Date: _____	
Reply Optional [ ]	Reply Required [ ]	Info. Only [ ]
Date Due: _____	Date Due: _____	

TO: Victoria J. Tschinkel  
FROM: *John S. McC...*  
Clair Fancy

RECEIVED

MAY 17 1983

DATE: May 17, 1983

Office of the Secretary

SUBJ: Approval of Attached Air Construction Permits

Attached for your approval and signature are seven Air Construction Permits for which the applicant is Occidental Chemical Company. The proposed project is to construct/modify two sulfuric acid plants and to increase the sulfur content of the fuel oil used to fire four existing steam boilers and a diammonium phosphate dryer. These sources are located at Occidental Chemical Company's existing chemical complexes near White Springs, Hamilton County, Florida.

Day 90, after which the permits would be issued by default, is May 18, 1983.

The Bureau recommends your approval and signature.

CF/pa

Attachment