

Check Sheet

Company Name: Monsanto Chemical Company
Permit Number: AC 17-178351
PSD Number: _____
Permit Engineer: _____

Application:

- | | |
|--|--------------------------|
| <input checked="" type="checkbox"/> Initial Application | Cross References: |
| <input checked="" type="checkbox"/> Incompleteness Letters | <input type="checkbox"/> |
| <input type="checkbox"/> Responses | <input type="checkbox"/> |
| <input type="checkbox"/> Waiver of Department Action | <input type="checkbox"/> |
| <input type="checkbox"/> Department Response | |
| <input type="checkbox"/> Other | |

Permit Denied

Intent:

- Intent to Issue
- Notice of Intent to Issue
- Technical Evaluation
- BACT or LAER Determination
- Unsigned Permit
- Correspondence with:
 - EPA
 - Park Services
 - Other
- Proof of Publication
 - Petitions - (Related to extensions, hearings, etc.)
 - Waiver of Department Action
 - Other

Final

Determination:

- Final Determination
- Signed Permit
- BACT or LAER Determination
- Other

Post Permit Correspondence:

- Extensions/Amendments/Modifications
- Other

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
 Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. Show to whom delivered, date; and addressee's address. (Extra charge)
 2. Restricted Delivery (Extra charge)

3. Article Addressed to:
 Monsanto Co.
 P.O. Box 12830
 Pensacola, FL 32575

4. Article Number
 P 256 396 230

Type of Service:
 Registered Insured
 Certified COD
 Express Mail Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
 X

6. Signature — Agent
 X Bob Putney

7. Date of Delivery

8. Addressee's Address (ONLY if requested and unpaid)

PENSACOLA, FL DOWNTOWN ST.
NOV 15 1990

PS Form 3811, Apr. 1989

*U.S.G.P.O. 1989-238-815

DOMESTIC RETURN RECEIPT

P 256 396 230
RECEIPT FOR CERTIFIED MAIL

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

PS Form 3800, June 1985

*U.S.G.P.O. 1989-234-555

Sent to	Monsanto
Street and No.	PO BOX 12830
P.O., State and ZIP Code	Pensacola, FL
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	11-14-90 AQ 17-178351

BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of
Application for Permits by:

Monsanto Company
Post Office Box 12830
Pensacola, Florida 32575

DER File No. AC 17-178351

NOTICE OF PERMIT DENIAL

The applicant, Monsanto Company, Post Office Box 12830, Pensacola, Florida, applied on March 28, 1990, to the Department of Environmental Regulation for a permit to construct a boric acid wet cyclone at their existing chemical plant located near Gonzalez, Escambia County, Florida.

The Department has permitting jurisdiction under Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 17-2 and 17-4. The project is not exempt from permitting procedures. The Department has determined that air construction permits are required for the proposed work.

The Department hereby denies the permit for the following reason:

1. Failure to respond to our letter of April 18, 1990, requesting additional information on the proposed project.

Without the additional information, the Department does not have reasonable assurance that the proposed project will comply with F.A.C. Chapter 17-2.

A person whose substantial interests are affected by the Department's permit denial may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the permit applicant and the parties listed below must be filed within 14 days of receipt of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information:

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application(s) have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in the Office in General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

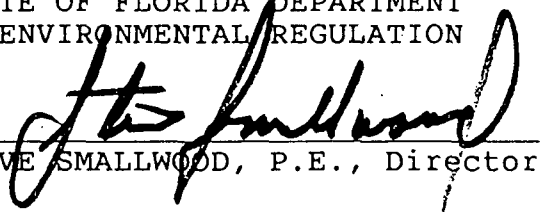
This notice constitutes final agency action unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this notice will not be effective until further Order of the Department.

Any party to this Notice of Permit Denial has the right to seek judicial review pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy with

the appropriate District Court of Appeal. Notice of Appeal must be filed within 30 days from the date the Notice of Permit Denial is filed with the Clerk of the Department.

Executed in Tallahassee, Florida.


STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION


STEVE SMALLWOOD, P.E., Director

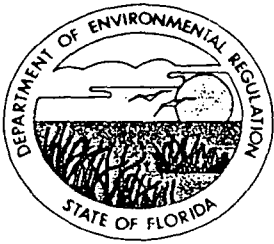
CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this Notice of Permit Denial and all copies were mailed before the close of business on 11-14-90 to the listed persons.

FILED, on this date, pursuant to §120.52(9), Florida Statutes, with designated Department Clerk, receipt of which is hereby acknowledged.


Clerk 11-14-90 Date

Copies furnished to:
Jack Preece, NW District



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

October 4, 1990

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. W. J. Board
Monsanto Company
Post Office Box 12830
Pensacola, Florida 32575

Dear Mr. Board:

Re: File No. AC 17-178351, Boric Acid Wet Cyclone

On April 18, 1990, the Bureau of Air Regulation requested you furnish us additional information to complete your application for permit to construct the referenced source. As of this date, the Bureau has not received the information requested in our April 18 letter.

Please let us know if you plan to pursue obtaining a permit for this project. If you do not respond within 30 days from the receipt of this letter, the Bureau will assume you have changed your plans to modify this plant and will recommend denial of your request for the permit.

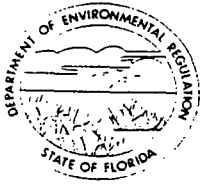
If you have any questions on this matter, please write to me or call Willard Hanks, review engineer, at (904) 488-1344.

Sincerely,

C. H. Fancy, P.E.
Chief
Bureau of Air Regulation

CHF/WH/plm

c: Jack Preece, NW Dist.
Bruce McLeod, P.E.



State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee	
To: _____	Location: _____
To: _____	Location: _____
To: _____	Location: _____
From: _____	Date: _____

Interoffice Memorandum

TO: Steve Smallwood
FROM: Clair Fancy *CAF*
DATE: November 7, 1990
SUBJ: Notice of Permit Denial No. AC 17-178351
Monsanto Company

Attached for your approval and signature is a "Notice of Permit Denial" for a construction permit application for a boric acid wet cyclone at Monsanto Company's existing plant north of Pensacola, Florida. The Bureau is recommending that the permit be denied because the applicant did not respond to our April 18, 1990, letter requesting additional information on the proposed project.

I recommend your approval and signature.

CF/WH/plm

Attachment

(OK)
for
11-9-90

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this may result in this card from being returned to you. The return receipt will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. Show to whom delivered, date, and addressee's address. 2. Restricted Delivery (Extra charge)

3. Article Addressed to:
*W.J. Board
 Monsanto Co.
 P.O. Box 12830
 Pensacola, FL 32575*

4. Article Number
P 256 395 216

Type of Service:
 Register Insured
 Certified COD
 Express Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X

7. Date of Delivery
10/19/80

8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-815



DOMESTIC RETURN RECEIPT

P 256 395 216
RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

U.S.G.P.O. 1989-234-555

Sent to *W.J. Board*

Street and No. *Monsanto*

P.O. State and ZIP Code *P.O. Box 12830*

Postage *Pensacola, FL*

Certified Fee

Special Delivery Fee

Restricted Delivery Fee

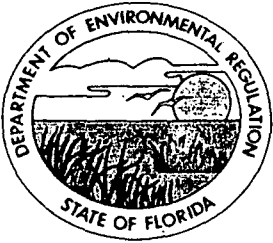
Return Receipt showing to whom and Date Delivered

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

TOTAL Postage and Fees \$

Postmark or Date *10-19-80
 AC 17-178351*

PS Form 3800, June 1985



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

October 4, 1990

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

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Monsanto Company
Post Office Box 12830
Pensacola, Florida 32575

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Please let us know if you plan to pursue obtaining a permit for this project. If you do not respond within 30 days from the receipt of this letter, the Bureau will assume you have changed your plans to modify this plant and will recommend denial of your request for the permit.

If you have any questions on this matter, please write to me or call Willard Hanks, review engineer, at (904) 488-1344.

Sincerely,

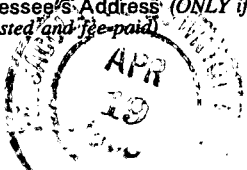
C. H. Fancy, P.E.
Chief
Bureau of Air Regulation

CHF/WH/plm

c: Jack Preece, NW Dist.
Bruce McLeod, P.E.

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
 Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. Show to whom delivered, date, and addressee's address. (Extra charge)
 2. Restricted Delivery (Extra charge)

3. Article Addressed to: W.S. Beard Monsanto Co. P.O. Box 12830 Pensacola, FL 32575	4. Article Number P 938 762 857
	Type of Service: <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured <input type="checkbox"/> COD <input type="checkbox"/> Return Receipt for Merchandise
Always obtain signature of addressee or agent and DATE DELIVERED.	
5. Signature - Address X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent X	
7. Date of Delivery 4/19/90	

PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT

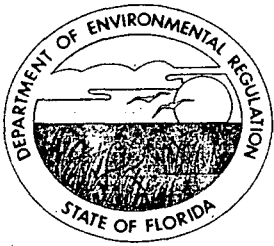
P 938 762 857

RECEIPT FOR CERTIFIED MAIL

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

Sent to W.S. Beard	
Street and No. Monsanto - P.O. Box 12830	
City, State, and ZIP Code Pensacola, FL	
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 4-18-90 AC 17-170351	

PS Form 3800, June 1985



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

April 18, 1990

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. W. J. Board
Monsanto Company
P. O. Box 12830
Pensacola, Florida 32575

Dear Mr. Board:

Re: File No. AC 17-178351, Boric Acid Wet Cyclone

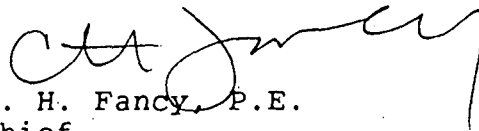
The Department has made a preliminary review of your application for permit to construct a new boric acid wet cyclone at Monsanto Company's Escambia County facility. Before the application can be processed, we need the following information.

1. How is the boric acid brought to the plant (rail cars, trucks, etc.)?
2. What is the current permit number for the plant that will use the acid?
3. Please show the \$10,000 bag filter referenced in Section IIC of the application on the schematic drawing.
4. The proposed particulate matter emissions of 4 lbs/hr (5.5 TPY) certified by the vendor exceeds the allowable emissions of 3.59 lbs/hr (4.9 TPY). Please document that the wet cyclone be upgraded to meet the standard.
5. Does the wet cyclone stack have the test facilities required by F.A.C. Rule 17-2.700?
6. How will the boric acid process weight rate be determined during compliance tests?

Mr. W. J. Board
Page 2
April 18, 1990

We will resume processing the application after we receive the requested information. If you have any questions on this matter, please call Willard Hanks at (904)488-1344.

Sincerely,


C. H. Fancy, P.E.
Chief
Bureau of Air Regulation

CHF/plm

c: Jack Preece, NW District
Bruce McLeod, P.E.

Monsanto

MONSANTO CHEMICAL COMPANY
P. O. Box 12830
Pensacola, Florida 32575-2830
Phone: (904) 968-7000

March 16, 1990

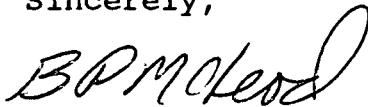
Mr. C. H. Fancy, P.E.
Bureau of Air Quality Management
Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Dear Mr. Fancy:

Enclosed are four copies of a construction permit application and \$200 permit fee check for a Boric Acid Wet Cyclone System.

If there are any questions, I can be reached at 904/968-8725.

Sincerely,



B. P. McLeod
Consultant
Environmental Control

Enclosures (4)

cc: *st. Hanks*
J. Wallace, NW Dist.

1031

1802.BPM-1

RECEIVED
DER - MAIL ROOM
1990 MAR 28 AM 10:52

Monsanto

WORKING FUND ACCOUNT
MONSANTO COMPANY
PENSACOLA, FLORIDA

72013635

62-20
311

03-26-90

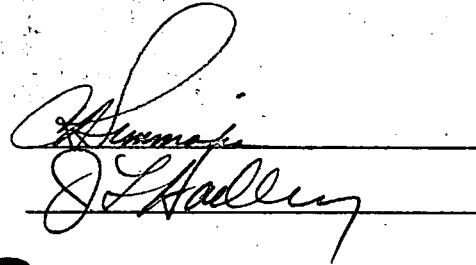
EXACTLY 200.00

\$200.00

PAY
TO THE
ORDER
OF

DEPARTMENT OF ENVIRONMENTAL REGULATION

Citibank (Delaware)



P-13 MONSANTO COMPANY, PENSACOLA, FLORIDA
03-26-90

72013635

THE ATTACHED CHECK IS IN PAYMENT OF THE FOLLOWING:

DEPARTMENT OF ENVIRONMENTAL REGULATION

MEMO

DATE

INVOICE NO.

AMOUNT

DEDUCTIONS
& DISCOUNT

NET

Boric Acid Cycycline
Construction Permit Fee -
B. P. McLeod

03-26-90

\$200.00

\$200.00

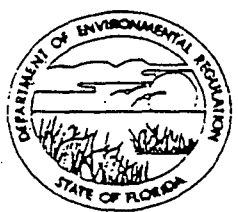
DETACH BEFORE DEPOSITING

\$300 pd
3-28-90
Recpt. # 151111

AC 17-174351

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Air Pollution New¹ Existing¹
APPLICATION TYPE: Construction Operation Modification
COMPANY NAME: Monsanto Company COUNTY: Escambia
Identify the specific emission point source(s) addressed in this application (i.e. Lime
Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Boric Acid Wet Cyclone
SOURCE LOCATION: Street 3000 Old Chemstrand Road City Gonzalez, FL 32533
UTM: East Zone 16,476 km North Zone 16 3,385 km
Latitude 30° 35' 56" N Longitude 87° 15' 01" W
APPLICANT NAME AND TITLE: W. J. Board, Gen. Supt., Gov. Affairs/Env. Health & Safety
APPLICANT ADDRESS: P. O. Box 12830, Pensacola, FL 32575

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Monsanto Company
I certify that the statements made in this application for a Construction
permit are true, correct and complete to the best of my knowledge and belief. Further,
I agree to maintain and operate the pollution control source and pollution control
facilities in such a manner as to comply with the provision of Chapter 403, Florida
Statutes, and all the rules and regulations of the department and revisions thereof. I
also understand that a permit, if granted by the department, will be non-transferable
and I will promptly notify the department upon sale or legal transfer of the permitted
establishment.

*Attach letter of authorization

Signed: WJ Board
W. J. Board, Gne. Supt., Gov. Affairs/Env. Health &
Name and Title (Please Type) Safety
Date: 3/26/90 Telephone No. 904/968-7350

B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project have
been designed/examined by me and found to be in conformity with modern engineering
principles applicable to the treatment and disposal of pollutants characterized in the
permit application. There is reasonable assurance, in my professional judgment, that

See Florida Administrative Code Rule 17-2.100(57) and (104)

the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

Signed

Bruce P. McLeod, P.E.

Bruce P. McLeod, P.E.

Name (Please Type)

Monsanto Company

Company Name (Please Type)

P. O. Box 12830, Pensacola, FL 32575

Mailing Address (Please Type)

Florida Registration No. 26956

Date: 3/22/90

Telephone No. 904/968-8725

SECTION II: GENERAL PROJECT INFORMATION

- A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

Installation of a wet cyclone to collect boric acid fines.

- B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction upon permit receipt Completion of Construction 24 mos. after permit receipt

- C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)

Bag Filter \$10,000

- D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

E. Requested permitted equipment operating time: hrs/day _____; days/wk _____; wks/yr _____; if power plant, hrs/yr _____; if seasonal, describe: Total annual operating time not to exceed 2750 hrs./yr. Documentation of operating hours will be possible by accounting data of annual boric acid usage, not to exceed 5.5 million lbs./yr. (2000 lbs./hr. unloading rate for 2750 hrs./yr./). Actual annual boric acid usage is company confidential, but can be reviewed by DER inspectors.

F. If this is a new source or major modification, answer the following questions. (Yes or No)

- | | |
|--|-----|
| 1. Is this source in a non-attainment area for a particular pollutant? | No |
| a. If yes, has "offset" been applied? | N/A |
| b. If yes, has "Lowest Achievable Emission Rate" been applied? | N/A |
| c. If yes, list non-attainment pollutants. _____ | N/A |
| 2. Does best available control technology (BACT) apply to this source? If yes, see Section VI. | No |
| 3. Does the State "Prevention of Significant Deterioration" (PSD) requirement apply to this source? If yes, see Sections VI and VII. | No |
| 4. Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source? | No |
| 5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source? | No |
| H. Do "Reasonably Available Control Technology" (RACT) requirements apply to this source? | No |
| a. If yes, for what pollutants? _____ | N/A |
| b. If yes, in addition to the information required in this form, any information requested in Rule 17-2.650 must be submitted. | |

Attach all supportive information related to any answer of "Yes". Attach any justification for any answer of "No" that might be considered questionable.

SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)

A. Raw Materials and Chemicals Used in your Process, if applicable:

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
Boric Acid	N/A		2000	1

B. Process Rate, if applicable: (See Section V, Item 1)

1. Total Process Input Rate (lbs/hr): 2000

2. Product Weight (lbs/hr): 2000

C. Airborne Contaminants Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary)

Name of Contaminant	Emission ¹		Allowed Emission Rate per Rule 17-2	Allowable ³ Emission lbs/hr	Potential ⁴ Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Particulates	4.00	5.5	N/A	N/A	N/A		1

¹See Section V, Item 2.

²Reference applicable emission standards and units (e.g. Rule 17-2.600(5)(b)2. Table II, E. (1) - 0.1 pounds per million BTU heat input)

³Calculated from operating rate and applicable standard.

⁴Emission, if source operated without control (See Section V, Item 3).

J. Control Devices: (See Section V, Item 4)

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Wet Cyclone	particulate	99.8%	N/A	Vendor design certification

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
N/A			

*Units: Natural Gas--MMCF/hr; Fuel Oils--gallons/hr; Coal, wood, refuse, other--lbs/hr.

Fuel Analysis:

Percent Sulfur: _____ Percent Ash: _____

Density: _____ lbs/gal Typical Percent Nitrogen: _____

Heat Capacity: _____ BTU/lb _____ BTU/gal

Other Fuel Contaminants (which may cause air pollution): _____

F. If applicable, indicate the percent of fuel used for space heating.

Annual Average _____ Maximum _____

G. Indicate liquid or solid wastes generated and method of disposal.

H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):

Stack Height: approximately 30 ft. Stack Diameter: 1.5 (18") ft.
 Gas Flow Rate: 2250 (approx.) ACFM 2250 DSCFM Gas Exit Temperature: ambient °F.
 Water Vapor Content: ambient % Velocity: 21 approx. FPS

SECTION IV: INCINERATOR INFORMATION

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated	NOT APPLICABLE						
Uncontrolled (lbs/hr)							

Description of Waste _____
 Total Weight Incinerated (lbs/hr) _____ Design Capacity (lbs/hr) _____
 Approximate Number of Hours of Operation per day _____ day/wk _____ wks/yr. _____
 Manufacturer _____
 Date Constructed _____ Model No. _____

	Volume (ft) ³	Heat Release (BTU/hr)	Fuel		Temperature (°F)
			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

Stack Height: _____ ft. Stack Diameter: _____ Stack Temp. _____
 Gas Flow Rate: _____ ACFM _____ DSCFM* Velocity: _____ FPS

*If 50 or more tons per day design capacity, submit the emissions rate in grains per standard cubic foot dry gas corrected to 50% excess air.

Type of pollution control device: Cyclone Wet Scrubber Afterburner
 Other (specify) _____

Brief description of operating characteristics of control devices: _____

Ultimate disposal of any effluent other than that emitted from the stack (scrubber water, ash, etc.):

NOTE: Items 2, 3, 4, 6, 7, 8, and 10 in Section V must be included where applicable.

SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

1. Total process input rate and product weight -- show derivation [Rule 17-2.100(127)]
2. To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.) and attach proposed methods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made.
3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
4. With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section sketch, design pressure drop, etc.)
5. With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3 and 5 should be consistent: actual emissions = potential (1-efficiency).
6. An 8 1/2" x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained.
7. An 8 1/2" x 11" plot plan showing the location of the establishment, and points of airborne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).
8. An 8 1/2" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

9. The appropriate application fee in accordance with Rule 17-4.05. The check should be made payable to the Department of Environmental Regulation.
10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

NOT APPLICABLE

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY

- A. Are standards of performance for new stationary sources pursuant to 40 C.F.R. Part 60 applicable to the source?

Yes No

Contaminant	Rate or Concentration
_____	_____
_____	_____
_____	_____
_____	_____

- B. Has EPA declared the best available control technology for this class of sources (If yes, attach copy)

Yes No

Contaminant	Rate or Concentration
_____	_____
_____	_____
_____	_____
_____	_____

- C. What emission levels do you propose as best available control technology?

Contaminant	Rate or Concentration
_____	_____
_____	_____
_____	_____
_____	_____

- D. Describe the existing control and treatment technology (if any).

- | | |
|---------------------------|--------------------------|
| 1. Control Device/System: | 2. Operating Principles: |
| 3. Efficiency:* | 4. Capital Costs: |

*Explain method of determining

5. Useful Life:

6. Operating Costs:

7. Energy:

8. Maintenance Cost:

9. Emissions:

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

10. Stack Parameters

a. Height:

ft.

b. Diameter:

ft.

c. Flow Rate:

ACFM

d. Temperature:

°F.

e. Velocity:

FPS

E. Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary).

1.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

2.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

¹Explain method of determining efficiency.

²Energy to be reported in units of electrical power - KWH design rate.

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

3.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

4.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Costs:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

F. Describe the control technology selected:

1. Control Device:

2. Efficiency:¹

3. Capital Cost:

4. Useful Life:

5. Operating Cost:

6. Energy:²

7. Maintenance Cost:

8. Manufacturer:

9. Other locations where employed on similar processes:

a. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

¹ Explain method of determining efficiency.

Energy to be reported in units of electrical power - KWH design rate.

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant

Rate or Concentration

(8) Process Rate:¹

b. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant

Rate or Concentration

(8) Process Rate:¹

10. Reason for selection and description of systems:

¹Applicant must provide this information when available. Should this information not be available, applicant must state the reason(s) why.

SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION

A. Company Monitored Data

1. _____ no. sites _____ TSP _____ () SO₂* _____ Wind spd/dir

Period of Monitoring _____ / _____ / _____ to _____ / _____ / _____
month day year month day year

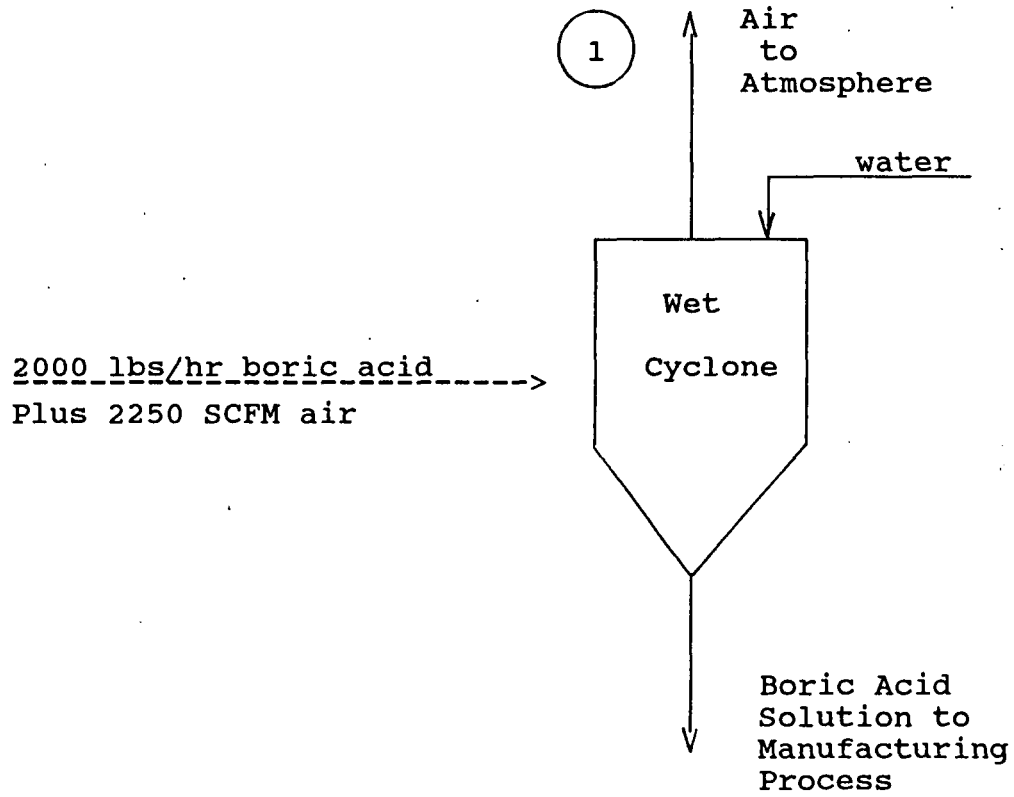
Other data recorded _____

Attach all data or statistical summaries to this application.

Specify bubbler (B) or continuous (C).

MONSANTO PENSACOLA

BORIC ACID WET CYCLONE SYSTEM SCHEMATIC



MONSANTO PENSACOLA
CALCULATION OF PARTICULATE EMISSIONS

4 lbs/hr boric acid particulate per vendor design. (See attached quote)

$$\frac{4 \text{ lbs}}{\text{hr}} \quad \times \quad \frac{2750 \text{ hr}}{\text{yr}} \quad \times \quad \frac{1 \text{ ton}}{2000 \text{ lbs.}} \quad = \quad \frac{5.5 \text{ tons}}{\text{yr}}$$

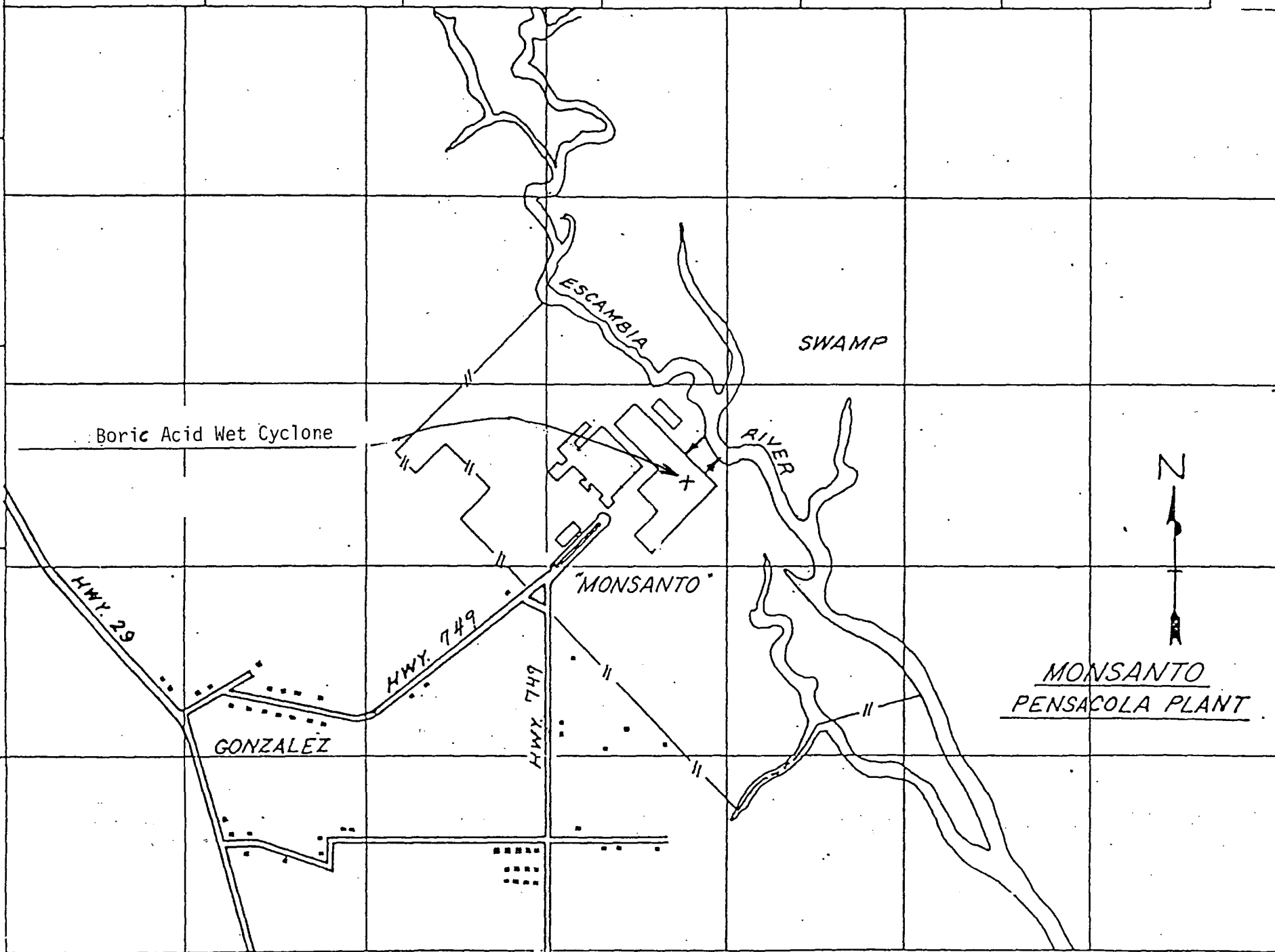
87°18'

87°15'

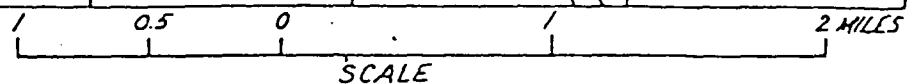
87°12'

30°37'

30°34'



MONSANTO
PENSACOLA PLANT



BEST AVAILABLE COPY

Systems Engineering Research Facilities
S. E. R. F. INC.

P. O. BOX 59 (904) 476-8203
CANTONMENT, FL 32533

QUOTATION

DATE: 5/9/89

QUOTATION NO. 5-9-89-1

YOUR INQUIRY NO.

MONSANTO
P.O. BOX 12830
PENSACOLA, FL. 32575
ATTN: MR. DAVE WORDUNG

IN RESPONSE TO YOUR INQUIRY, WE SUBMIT THE FOLLOWING QUOTATION:

QUANTITY	DESCRIPTION	PRICE
	<p>REF: BORIC CYCLONE RECEIVER (PREVIOUS QUOTES TO MR. HOLLAND AND MR. MCLOUD)</p> <p>SUBJECT: REVISED DATA FOR DESIGN</p> <p>NOTE THE DESIGN FOR THE BORIC CYCLONE RECEIVIER HAS BEEN REEVALUATED TO COMPLY WITH CAPACITY AND EMISSIONS REQUIREMENTS.</p> <p>DESIGN AND MANUFACTURE CYCLONE RECEIVER FOR BORIC SOLIDS AND AIR CONVEYING PROCESS:</p> <ol style="list-style-type: none"> 1) CAPACITY—2250 SCFM AIR WITH 2000LBS/HR BORIC 2) 4X6 RECEIVING INLET 3) TOP FLANGE ENTRY 4) PACKED CONTACT CHAMBER WITH SADDLE PACKING 5) ALL MATERIALS TO BE 304 SS EXCEPT PACKING WHICH IS POLYPROPELENE 6) WORKING DRAWINGS PROVIDE ON MONSANTO MYLAR PRIOR TO CONSTRUCTION 7) DISCHARGE TO BE LESS THAN 4 LBS/HR TO THE ATMOSPHERE 	

TERMS:	F.O.B.	ESTIMATED SHIPPING DATE:
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BY 