



A Limited Partnership

October 23, 1992

Mr. C.H. Fancy, P.E.  
Chief, Bureau of Air Regulation  
Florida Department of Environmental Regulation  
Twin Towers Office Building  
2640 Blair Stone Road  
Tallahassee, Florida 32399-2400

Subject: FDER File No. AC48-214902  
Foamex LP  
(C/TA # F21.816)

Dear Mr. Fancy:

Attached is a copy of the Orange County Order for the Foamex LP facility. As stated in the John Bateman cover letter that a completed permit application is to be submitted to the FDER sixty days from the effective date of the Consent Order. Based on concurrence with Orange County, the effective date of the Consent Order was determined to be the date it was received by Foamex, October 5, 1992.

Based on the above, Foamex will submit a revised permit application by December 4, 1992 which will include your request for additional information of June 26, 1992.

If you have any questions, and/or require any additional information, please do not hesitate to call upon me.

Sincerely,

Charles Eavenson

CC: Linda Spellman  
Norm Simineau  
Joe Tessitore  
Cliff Schulman

*Handwritten notes:*  
in copy  
1. regulatory  
2. department  
3. bill no. 1000  
4. bill no. 1000  
5. bill no. 1000

Regency Industrial Park  
1351 Gemini Blvd  
Orlando FL 32821-9276  
Phone: 407 857 2510  
FAX: 407 826 9400

RECEIVED

OCT 29 1992

Division of Air  
Resources Management



Is your RETURN ADDRESS  
completed on the reverse side?

X  
P

Fold at line over top of envelope to the  
right of the return address.

**CERTIFIED**

831 800 501

**MAIL**

FLORIDA DEPARTMENT OF  
ENVIRONMENTAL REGULATION  
TWIN TOWERS OFFICE BUILDING  
2640 BLAIR STONE ROAD  
TALLAHASSEE, FLORIDA 32399-2400  
ATTN: MR. C.H. FANCY, P.E.  
CHIEF, BUREAU OF AIR REGULATION

RECEIVED OCT 0 5 1992

Orange



County

Environmental Protection Department  
J. M. Bateman, P.E., Manager  
2002 East Michigan Street  
Orlando, Florida 32806-4999  
Telephone (407) 836-7400

CERTIFIED  
P 034 523 919

October 1, 1992

Mr. Charles Eavenson  
Plant Manager  
FOAMEX  
Regency Industrial Park  
1351 Gemini Boulevard  
Orlando, Florida 32821

Dear Mr. Eavenson:

RE: Consent Order for FOAMEX LP

Attached is the fully executed copy of the Consent Order between our Department and FOAMEX LP. You have sixty (60) days from the effective date of this Consent Order to submit ten thousand dollars (\$10,000) to the Orange County Environmental Protection Department and to submit a completed air permit application to the Florida Department of Environmental Regulation to complete the settlement of this agreement.

If you have any further questions, please contact Dennis Nester or Edythe Soklaski at 836-7400.

Sincerely,

John M. Bateman, P.E.  
Environmental Protection Officer

JMB:DN:es  
*DN*  
Attachment

APPROVED BY THE BOARD OF COUNTY  
COMMISSIONERS AT THEIR MEETING

SEP 15 1992 *rep/ala*

*HLC #7*

**BEFORE THE ORANGE COUNTY  
ENVIRONMENTAL PROTECTION DEPARTMENT**

ORANGE COUNTY ENVIRONMENTAL  
PROTECTION DEPARTMENT

Complainant,

vs.

FOAMEX LP

Respondent

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IN THE OFFICE OF THE ORANGE  
COUNTY ENVIRONMENTAL PROTECTION  
DEPARTMENT

CASE NO. ORG-92-040

**CONSENT ORDER**

This Consent Order is made and entered into between the Orange County Environmental Protection Department ("Department") and Charles Eavenson, Plant Manager of FOAMEX LP, 1351 Gemini Boulevard, Orlando, Florida 32821. ("Respondent").

The Department finds the following:

- 1. The Department is the administrative agency in Orange County which has the authority to administer and enforce the provisions of Chapter 403, Florida Statutes, and the rules promulgated thereunder, Florida Administrative Code, Chapter 17.
- 2. Respondent is a person within the meaning of Section 403.031(5), Florida Statutes.
- 3. Respondent owns and operates a Flexible Polyuerethane Foam Manufacturing facility at 1351 Gemini Boulevard, Orlando, Orange County, Florida. Street, Orlando, Orange County, Florida.

4. On April 10, 1992, Department representatives conducted an investigation at Respondent's facility. The investigation revealed that the facility was operating without a valid Florida Department of Environmental Regulation permit.

5. Respondent was issued Warning Notice (ORG-92-040) on June 10, 1992, informing Respondent that he was operating a stationary source of air pollution without a valid permit issued by the Florida Department of Environmental Regulation in violation of Section 403.161(1)(b), Florida Statutes and Florida Administrative Code Rule 17-2.210, and requesting a meeting to be held to resolve this violation.

6. An informal meeting was held on June 12, 1992, between the Department and the Respondent to discuss the violation(s) referenced in this Consent Order, in order to bring about a satisfactory resolution of this matter.

**THEREFORE**, having reached a resolution of the matter pursuant to Florida Administrative Code Rule 17-103.110(3), the Department and the Respondent mutually agree and it is:

**ORDERED**

7. Respondent shall be permitted to operate subject facility for no longer than sixty (60) days, during which time an appropriate permit application shall be submitted to the Florida Department of Environmental Regulation(FDER), beginning upon the date of Respondent signing this order.

8. Upon submittal of an appropriate application to the Florida Department of Environmental Regulation, Respondent shall be permitted to operate subject facility during the FDER application review process. Modifications or substantial changes to any process that would result in the additional emission of air pollutants, shall not be installed or put into use without prior consent from the Department and FDER.

9. Respondent shall pay a penalty to the Department with either a money order, cashier's check, or certified check in the amount of ten thousand dollars (\$10,000.00). Payment shall be made payable to the Orange County Environmental Protection Department and should be sent to the Department's office, 2002 East Michigan Street, Orlando, Florida 32806-4999.

10. Respondent shall allow authorized representatives of the Department access to the property at reasonable times without prior approval for purposes of determining compliance with this Order and the rules of the Department.

11. The Department hereby expressly reserves the right to initiate appropriate legal action to prevent or prohibit the future violation of applicable statutes or the rules promulgated thereunder.

12. The Department, for and in consideration of the complete and timely performance by Respondent of the obligations agreed to in this Consent Order, hereby waives its right to seek judicial imposition of damages, or civil or criminal penalties for the violation outlined in this Consent Order.

13. Respondent waives its right to a hearing or judicial review of the terms of this Consent Order.

14. Entry of this Consent Order does not relieve Respondent of the need to comply with applicable federal, state or local laws, regulations or ordinances. The entry of this Consent Order does not abrogate the rights of substantially affected persons who are not parties to this Consent Order, pursuant to Chapter 120, Florida Statutes.

15. Persons who are not parties to this consent order have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative hearing on it. The petition must contain the information set forth below and must be filed (received) at the County Attorney's office, 201 South Rosalind Avenue, Orlando, Florida 32802-1393; within 21 days of receipt of this notice. Failure to file a petition within the 21 days constitutes a waiver of any right such person has to an administrative hearing pursuant to Section 120.57, F.S.

The petition shall contain the following information (a) the name, address, and telephone number of each petitioner; the Department's consent order identification number; (b) a statement of how and when each petitioner received notice of the consent order; (c) a statement of how each petitioner's substantial interests are affected by the consent order; (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 consent order; (f) a statement of which rules or statutes petitioner contends require reversal or modification of the consent order; (g) a statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the consent order.

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 subject consent order 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 21 days of receipt of this notice in the office of the County Attorney at the above address. 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 part 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.

16. The terms and conditions set forth in the Consent Order may be enforced in a court of competent jurisdiction pursuant to Sections 120.69 and 403.121, Florida Statutes.

17. Respondent is fully aware a violation of the terms of this Consent Order may subject Respondent to Judicial imposition of damages, civil penalties of up to \$10,000 per offense and criminal penalties.

18. By entering into this Consent Order and complying with its terms, Respondent does not admit any of the findings of fact or of law contained herein nor does Respondent admit in any way any liability whatsoever for any claims by any party arising out of activities or conditions at its Orlando facility.



19. Except as provided in this paragraph, this Consent Order shall not be admissible in evidence against Respondent or over Respondent's objection in any administrative or judicial proceeding arising out of or relating to any of the facts or circumstances referred to in the Consent Order. This Consent Order may be admitted into evidence in any action brought to enforce its terms and conditions.

FOR THE RESPONDENT:  
FOAMEX LP

June 17, 1992  
Date

By: Charles W. Evensen

DONE AND ORDERED this 15<sup>th</sup> day of SEPTEMBER,

1992, at Orlando, Orange County, Florida.

ATTEST: Martha O. Haynie, Clerk  
to the Orange County Commission

ORANGE COUNTY, FLORIDA

Mary J. Garrison  
Deputy Clerk

By: Vera M. Carter  
FOR THE Chairman,  
Orange County Commission

DATE: SEP 15 1992

FOR THE USE AND RELIANCE  
OF ORANGE COUNTY ONLY.  
APPROVED AS TO FORM

June 29 1992  
Alvin M. Yano  
Assistant County Attorney



CROSS/TESSITORE & ASSOCIATES, P.A.

4763 S. CONWAY ROAD, SUITE F  
ORLANDO, FLORIDA 32812  
407/851-1484

RECEIVED  
JUL 27 1992  
Division of Air  
Resources Management

July 24, 1992

Mr. Willard Hanks  
Review Engineer  
Florida Department of Environmental Regulation  
2600 Blairstone Road  
Tallahassee, Florida 32399

Subject: DER File No. AC 48-214-902, Foamex/Request for Information  
(C/TA # F21.816)

Dear Mr. Hanks:

As discussed in your telephone conversation with C/TA on July 2, 1992, and in response to FDER's request for information of June 26, 1992, to Mr. Charles Eavenson, Foamex LP is currently expecting to enter into a Consent Order with Orange County, and will respond to FDER's request within 60 days of execution of the Consent Order by Orange County. This is based on the fact that the Orange County Consent Order is still being processed and until the Consent Order is finalized, the Foamex response to FDER cannot be accurately completed. In this regard, Foamex is intending to comply with any request for additional information in connection with the permit application process within 60 days of the execution of the Orange County Consent Order.

Should you have any question, please do not hesitate to call.

Sincerely,

*Joseph L. Tessitore*  
Joseph L. Tessitore, P.E.  
Vice President

JLT/kp

cc: Art Pereira - Foamex LP  
Linda Spellmon - Foamex LP  
Charles Eavenson - Foamex LP  
Cliff Shulman Esq - Greenberg-Taurig

CS5839.Doc

*Mr. Hanks  
C. Holladay  
J. Pennington  
C. Collins, & Dist  
D. Nestor, OCEPD  
G. Harrell, EPA  
C. Shauer, REGISTERED PROFESSIONAL ENGINEERS  
CHF/PL*



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

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

JUL - 8 1992

RECEIVED

JUL 15 1992

Division of Air  
Resources Management

4APT-AEB

Mr. Clair H. Fancy, P.E., Chief  
Bureau of Air Regulation  
Florida Department of Environmental  
Regulation  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

RE: Foamex, L.P., Orlando, Florida (PSD-FL-189)

Dear Mr. Fancy:

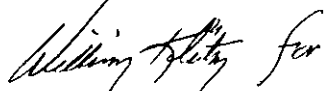
This is to acknowledge receipt of an application for a Prevention of Significant Deterioration (PSD) permit for the above referenced facility by your letter dated June 22, 1992. Foamex proposes to construct and operate a flexible polyurethane foam product plant in Orlando, Orange County, Florida.

As discussed between Mr. Willard Hanks of your staff and Mr. Stan Kukier of my staff on June 24, and July 2, 1992, much additional information is required before a review of this application by EPA-Region IV can continue. A process flow diagram, a description of all emissions units, both point source and fugitive emissions calculations, a Best Available Control Technology (BACT) analysis, as well as an air quality analysis, are not included in the application. Mr. Hanks also indicated that volatile organic compound (VOC) emissions may be significant.

The Florida Department of Environmental Regulation (FDER) has requested the information listed above, as well as other related information, in a letter to the applicant dated June 26, 1992 (see enclosed). When a copy of the additional information requested is received, Mr. Kukier will resume review of the Foamex PSD permit application. Mr. Hanks stated that the permit application as submitted will not be approved.

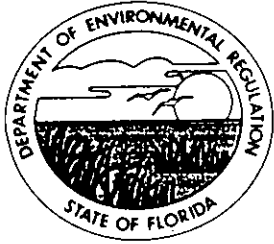
Thank you for the opportunity to comment on this application. If you have any questions or comments, please contact Mr. Stan Kukier of my staff at (404) 347-5014.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Jewell A. Harper for".

Jewell A. Harper, Chief  
Air Enforcement Branch  
Air, Pesticides, and Toxics  
Management Division

Enclosure



# Florida Department of Environmental Regulation

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

Lawton Chiles, Governor

Carol M. Browner, Secretary

June 26, 1992

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Charles Eavenson, Plant Manager  
Foamex, L.P.  
1351 Gemini Boulevard  
Orlando, FL 32821

Dear Mr. Eavenson:

Re: File No. AC 48-214902, Foamex

The Department has made a preliminary review of your application for permit to construct a flexible polyurethane foam product plant in Orlando, Orange County, Florida. The Department will need the following additional information before this application can be processed. Applicable sections of the application are noted after each question.


1. A process flow diagram that includes: individual process equipment, maximum/average process rates for each chemical in lbs/hr and lbs/yr, maximum/average fugitive and stack emission estimates in lbs/hr and TPY (Section V-1 and 6).
2. Provide emission estimates (maximum/average in lbs/hr and TPY), and stack parameters for each source in the modified plant. The application fee may have to be adjusted depending on your response to this question (Section IIIC.).
3. Estimate, using a Department approved model, the maximum 8 hour, 24 hour, and annual ambient air impact of the methylene chloride emissions from the plant (Section VII).
4. Provide a Best Available Control Technology determination to justify the air pollution control equipment you proposed to install if the future emissions will exceed 100 TPY of any air pollutant, along with the other information required by F.A.C. Rule 17-2.500(5). The determination should include comparisons of a carbon adsorption unit, condenser unit, and other applicable air pollution control equipment (Section VI).
5. What is the maximum time each line in the plant will operate? These times may become limits in any permit issued for this plant (Section IIE).

Mr. Charles Eavenson  
Page 2 of 2

6. Please clarify what is the maximum heat input to each indirect fired heater. Is distillate oil used as an alternate fuel in this plant (Section IIIIE)?
7. Will any liquid or solid waste be generated by the modified plant and, if so, how will it be disposed of (Section IIIG)?
8. Complete Section V of the application for the air pollution control equipment you select (Section V-2, 3, 4, and 5).
9. What is the scale for the plot plan and what is the distance from the nearest emission point in the plant to the plant boundary (Section V-7)?
10. Provide a copy of the MSDS data sheet for methylene chloride.

Please respond to this letter within 30 days of its receipt. The Department will resume processing your application after you furnish the requested information. If you have any questions, please write to me or call Willard Hanks, Review Engineer, at (904) 488-1344.

Sincerely,

  
G. H. Fancy, P.E.  
Chief

Bureau of Air Regulation

CHF/WH/plm

c: Charles Collins, CD  
Dennis Nester, OCEPD  
Joseph Tessitore, P.E.  
Jewell Harper, EPA  
Chris Shaver, NPS

**SENDER:**

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece next to the article number.

I also wish to receive the following services (for an extra fee):

- 1.  Addressee's Address
- 2.  Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:  
*Charles Cavenson*  
*Joanex, L.P.*  
*1351 Gemini Blvd.*  
*Orlando, FL 32821*

4a. Article Number  
*P 710 058 494*

4b. Service Type  
 Registered     Insured  
 Certified     COD  
 Express Mail     Return Receipt for Merchandise

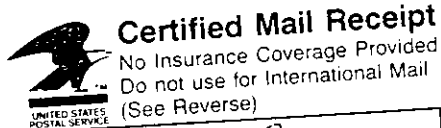
7. Date of Delivery  
*6-27-92*

5. Signature (Addressee)

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

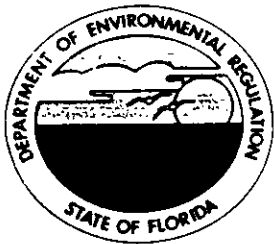
6. Signature (Agent)  
*Narcie Bouse*

P 710 058 494



Sent To	<i>Charles Cavenson</i>
Street & No.	<i>Joanex, L.P.</i>
PO, State & ZIP Code	<i>Orlando, FL</i>
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Address of Delivery	
TOTAL Postage & Fees	\$
Postmark or Date	<i>6-26-92</i>
<i>AC 48-214902</i>	

PS Form 3800, June 1990



# Florida Department of Environmental Regulation

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

Lawton Chiles, Governor

Carol M. Browner, Secretary

June 22, 1992

Ms. Jewell A. Harper, Chief  
Air Enforcement Branch  
U.S. EPA, Region IV  
345 Courtland Street, N.E.  
Atlanta, Georgia 30308

Dear Ms. Harper:

RE: Foamex LP, Orange County  
AC 48-214902, PSD-FL-189

Enclosed for your review is the above referenced permit application. Please forward your comments to the Department's Bureau of Air Regulation by July 7, 1992. The Bureau's FAX number is (904)922-6979.

If you have any questions, please contact Willard Hanks or Cleve Holladay at (904)488-1344 or write to me at the above address.

Sincerely,

*Patricia G. Adams*

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

CHF/pa

Enclosures





# Florida Department of Environmental Regulation

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

Lawton Chiles, Governor

Carol M. Browner, Secretary

June 22, 1992

Mrs. Chris Shaver, Chief  
Permit Review and Technical Support Branch  
National Park Service-Air Quality Division  
Post Office Box 25287  
Denver, Colorado 80225

Dear Mrs. Shaver:

RE: Foamex LP, Orange County  
AC 48-214902, PSD-FL-189

Enclosed for your review is the above referenced permit application. Please forward your comments to the Bureau of Air Regulation by July 7, 1992. The Bureau's FAX number is (904)922-6979.

If you have any questions, please call Willard Hanks or Cleve Holladay at (904)488-1344 or write to me at the above address.

Sincerely,

*Patricia G. Adams*

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

CHF/pa

Enclosures



**Speed Letter®**

To Willard Hanks Date 6/25/92

From \_\_\_\_\_

Date \_\_\_\_\_

Subject FOAMEX LP

NO. 10-507010

Message \_\_\_\_\_

Reply \_\_\_\_\_

Per our telephone  
conversation, attached  
is the Consent Order  
for FOAMEX LP

**RECEIVED**

JUN 29 1992

Division of Air  
Resources Management

Signed P. Nester  
836-7400

Signed \_\_\_\_\_

Additional  
copies may be  
ordered

30  
REQUIREMENT - RETAIN WHITE COPY, RETURN BLUE COPY.

4. On April 10, 1992, Department representatives conducted an investigation at Respondent's facility. The investigation revealed that the facility was operating without a valid Florida Department of Environmental Regulation permit.

5. Respondent was issued Warning Notice (ORG-92-040) on June 10, 1992, informing Respondent that he was operating a stationary source of air pollution without a valid permit issued by the Florida Department of Environmental Regulation in violation of Section 403.161(1)(b), Florida Statutes and Florida Administrative Code Rule 17-2.210, and requesting a meeting to be held to resolve this violation.

6. An informal meeting was held on June 12, 1992, between the Department and the Respondent to discuss the violation(s) referenced in this Consent Order, in order to bring about a satisfactory resolution of this matter.

**THEREFORE**, having reached a resolution of the matter pursuant to Florida Administrative Code Rule 17-103.110(3), the Department and the Respondent mutually agree and it is:

**ORDERED**

7. Respondent shall be permitted to operate subject facility for no longer than sixty (60) days, during which time an appropriate permit application shall be submitted to the Florida Department of Environmental Regulation(FDER), beginning upon the date of Respondent signing this order.

8. Upon submittal of an appropriate application to the Florida Department of Environmental Regulation, Respondent shall be permitted to operate subject facility during the FDER application review process. Modifications or substantial changes to any process that would result in the additional emission of air pollutants, shall not be installed or put into use without prior consent from the Department and FDER.

9. Respondent shall pay a penalty to the Department with either a money order, cashier's check, or certified check in the amount of ten thousand dollars (\$10,000.00). Payment shall be made payable to the Orange County Environmental Protection Department and should be sent to the Department's office, 2002 East Michigan Street, Orlando, Florida 32806-4999.

10. Respondent shall allow authorized representatives of the Department access to the property at reasonable times without prior approval for purposes of determining compliance with this Order and the rules of the Department.

11. The Department hereby expressly reserves the right to initiate appropriate legal action to prevent or prohibit the future violation of applicable statutes or the rules promulgated thereunder.

12. The Department, for and in consideration of the complete and timely performance by Respondent of the obligations agreed to in this Consent Order, hereby waives its right to seek judicial imposition of damages, or civil or criminal penalties for the violation outlined in this Consent Order.

13. Respondent waives its right to a hearing or judicial review of the terms of this Consent Order.

14. Entry of this Consent Order does not relieve Respondent of the need to comply with applicable federal, state or local laws, regulations or ordinances. The entry of this Consent Order does not abrogate the rights of substantially affected persons who are not parties to this Consent Order, pursuant to Chapter 120, Florida Statutes.

15. Persons who are not parties to this consent order have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative hearing on it. The petition must contain the information set forth below and must be filed (received) at the County Attorney's office, 201 South Rosalind Avenue, Orlando, Florida 32802-1393; within 21 days of receipt of this notice. Failure to file a petition within the 21 days constitutes a waiver of any right such person has to an administrative hearing pursuant to Section 120.57, F.S.

The petition shall contain the following information (a) the name, address, and telephone number of each petitioner; the Department's consent order identification number; (b) a statement of how and when each petitioner received notice of the consent order; (c) a statement of how each petitioner's substantial interests are affected by the consent order; (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 consent order; (f) a statement of which rules or statutes petitioner contends require reversal or modification of the consent order; (g) a statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the consent order.

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 subject consent order 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 21 days of receipt of this notice in the office of the County Attorney at the above address. 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 part 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.

16. The terms and conditions set forth in the Consent Order may be enforced in a court of competent jurisdiction pursuant to Sections 120.69 and 403.121, Florida Statutes.

17. Respondent is fully aware a violation of the terms of this Consent Order may subject Respondent to Judicial imposition of damages, civil penalties of up to \$10,000 per offense and criminal penalties.

18. By entering into this Consent Order and complying with its terms, Respondent does not admit any of the findings of fact or of law contained herein nor does Respondent admit in any way any liability whatsoever for any claims by any party arising out of activities or conditions at its Orlando facility.

19. Except as provided in this paragraph, this Consent Order shall not be admissible in evidence against Respondent or over Respondent's objection in any administrative or judicial proceeding arising out of or relating to any of the facts or circumstances referred to in the Consent Order. This Consent Order may be admitted into evidence in any action brought to enforce its terms and conditions.

FOR THE RESPONDENT:  
FOAMEX LP

June 17, 1992  
Date

By: Charles W. Eason

DONE AND ORDERED this \_\_\_\_\_ day of \_\_\_\_\_, 1992, at Orlando, Orange County, Florida.

ATTEST: Martha O. Haynie, Clerk  
to the Orange County Commission

ORANGE COUNTY, FLORIDA

\_\_\_\_\_  
Deputy Clerk

By: \_\_\_\_\_  
Chairman,  
Orange County Commission

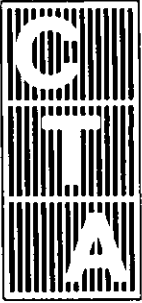
DATE: \_\_\_\_\_

FOR THE USE AND RELIANCE  
OF ORANGE COUNTY ONLY.  
APPROVED AS TO FORM

\_\_\_\_\_ 1992

\_\_\_\_\_  
Assistant County Attorney





CROSS/TESSITORE & ASSOCIATES, P.A.

4763 S. CONWAY ROAD, SUITE F  
ORLANDO, FLORIDA 32812  
407/851-1484

RECEIVED  
DER - MAIL ROOM

1992 JUN 11 PM 2:49

June 10, 1992

Mr. Bruce Mitchell  
Division of Air Resources Management  
Permitting and Standards Section  
Florida Department of Environmental Regulation  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

RECEIVED

JUN 10 1992

Bureau of  
Air Regulation

Subject: Foamex LP  
(C/TA # F21.816)

Dear Mr. Mitchell:

At the request of the Central Florida FDER District office, please find enclosed:

- 1) Three (3) copies of FDER Form 17-1.202(1) Application to Operate/Construct Air Pollution Sources for the Flexible Polyurethane Foam Product subject facility.
- 2) A check in the amount of \$7,500.00 made payable to the Florida Department of Environmental Regulation for the application processing fee.

It should be noted that by the filing of this application, Foamex does not admit to the necessity therefore or to the violation of any applicable federal, state or local laws, regulations, or ordinances and does not admit in any way, an liability whatsoever for any claims by any party arising from activities or conditions of its Orlando facility, but instead seeks to attempt to resolve this issue in the most expedient and satisfactory manner, consistent with existing laws, regulations and ordinances. Foamex will do everything possible to address this matter promptly and to your reasonable satisfaction.

Sincerely,

*Joseph L. Tessitore*  
Joseph L. Tessitore, P.E.  
Vice President

001031

JLT/slw

Enc: a/s

cc: Charles M. Collins - FDER - Central Florida District  
Dennis Nester - OCEPD  
Linda Spellmon - Foamex LP  
Steve Bradley - Foamex LP  
Charles A. Eavenson - Foamex LP

C3928.Doc *A. Hanks*  
*C. Foglia*  
*J. Eavenson*

REGISTERED PROFESSIONAL ENGINEERS

Federal ID # 59-1638534

**FEDERAL EXPRESS**

QUESTIONS? CALL 800-238-5355 TOLL FREE.

**AIRBILL**  
PACKAGE  
TRACKING NUMBER

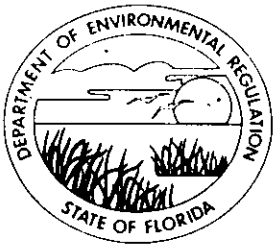
**2323239333**

**2323239333**

**RECIPIENT'S COPY**

From (Your Name) Please Print <b>Joe Tessitore</b> Company Street Address City State ZIP Required		Your Phone Number (Very Important) <b>(904) 488-1000</b> Department/Floor No		To (Recipient's Name) Please Print <b>Bruce Mitchell</b> Company <b>Div. of Air Resource Mgmt Permitt</b> <b>&amp; Standards Section FDER</b> Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes) <b>Twin Towers Office Bldg.</b> <b>22600 Blair Stone Road</b> City State ZIP Required <b>Tallahassee FL 32399</b>		Recipient's Phone Number (Very Important) <b>(904) 488-1000</b> Department/Floor No	
YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice) <b>001.816</b>				IF HOLD FOR PICK-UP, Print FEDEX Address Here Street Address City State ZIP Required			
PAYMENT 1 <input type="checkbox"/> Bill Sender 2 <input type="checkbox"/> Bill Recipient's FedEx Acct No 3 <input type="checkbox"/> Bill 3rd Party FedEx Acct No 4 <input type="checkbox"/> Bill Credit Card		<input type="checkbox"/> Cash/Check					

<b>4 SERVICES</b> (Check only one box)		<b>5 DELIVERY AND SPECIAL HANDLING</b> (Check services required)		<b>6 PACKAGES</b> WEIGHT in Pounds Owy YOUR DECLARED VALUE		Emp No <input type="checkbox"/> Cash Received <input type="checkbox"/> Return Shipment <input type="checkbox"/> Third Party <input type="checkbox"/> Chg Del <input type="checkbox"/> Chg To Hold Street Address City State Zip <b>JUN 11 1992</b> Received By <b>Division of Air Resources Management</b> Date/Time Received FedEx Employee Number	
Priority Overnight (Delivers by next business morning) 11 <input type="checkbox"/> YOUR PACKAGING 16 <input type="checkbox"/> FEDEX LETTER 12 <input type="checkbox"/> FEDEX PAK * 13 <input type="checkbox"/> FEDEX BOX 14 <input type="checkbox"/> FEDEX TUBE Economy Two Day (Delivers by second business day) 30 <input type="checkbox"/> ECONOMY Government Overnight (Delivers by second business day) 46 <input type="checkbox"/> GOVT LETTER 41 <input type="checkbox"/> GOVT PACKAGE Overnight SurePost (Use only with Priority Pak & Express Pak) 70 <input type="checkbox"/> OVERNIGHT FREIGHT ** 80 <input type="checkbox"/> TWO DAY FREIGHT **		Standard Overnight (Delivers by next business afternoon) 51 <input type="checkbox"/> YOUR PACKAGING 56 <input type="checkbox"/> FEDEX LETTER * 52 <input type="checkbox"/> FEDEX PAK * 53 <input type="checkbox"/> FEDEX BOX 54 <input type="checkbox"/> FEDEX TUBE 1 <input type="checkbox"/> HOLD FOR PICK-UP (if # in box) 2 <input type="checkbox"/> DELIVER WEEKDAY 3 <input type="checkbox"/> DELIVER SATURDAY (extra charges (not available to all locations)) 4 <input type="checkbox"/> DANGEROUS GOODS (if extra charges) 5 <input type="checkbox"/> 6 <input type="checkbox"/> DRY ICE 7 <input type="checkbox"/> OTHER SPECIAL SERVICE 8 <input type="checkbox"/> 9 <input type="checkbox"/> SATURDAY DELIVERY (if available) 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/> HOLIDAY DELIVERY (if available)		Total Total Total Total Total Total		Federal Express Chg. Base Charges Declared Value Charge Other 1 Other 2 Total Charges REVISION DATE 6/91 099 FEDERAL EXPRESS PURPLE IN DSA	



*Attention: Jack Warrat*

**Florida Department of Environmental Regulation**

**Central District** • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767

Lawton Chiles, Governor

Carol M. Browner, Secretary

June 1, 1992

Foamex  
1500 E. Second Street  
Eddystone, Pa. 19022

Dear Gentlemen:

Enclosed please find your check No. 228397 & 236656 in the amount of \$ 1500.00 & 3500.00. This check is being returned to you for the following reason(s):

application needs to be resubmitted to Tallahassee office with a \$7500.00 check attached. The address is as follows:

DEPARTMENT OF ENVIRONMENTAL REGULATION  
TWIN TOWERS OFFICE BLDG  
2600 BLAIR STONE ROAD  
TALLAHASSEE, FLORIDA 32399-2400

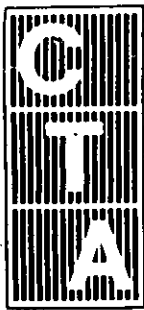
Your cooperation in this matter is appreciated.

Sincerely,

Kris Tulloch

KT/

Enclosure  
Check No. 228397 & 236656

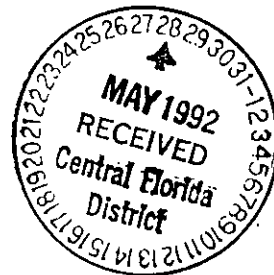


CROSS/TESSITORE & ASSOCIATES, P.A.

236656  
228397

4763 S. CONWAY ROAD, SUITE F  
ORLANDO, FLORIDA 32812  
407/851-1484

May 26, 1992  
F21.816



Mr. Alan Zahm, P.E.  
Air Compliance Engineering  
FDER-Central District  
3319 Maguire Blvd., Suite 232  
Orlando FL 32803-3767

SUBJECT: Foamex Application for Air Permit

Dear Mr. Zahm:

Please find enclosed:

- (1) Three (3) copies of FDER Form 17-1.202(1) Application to Operate/Construct Air Pollution Sources for the Flexible Polyurethane Foam Product facility located in Kissimmee, Florida. One copy has been sent directly to the Orange County Environmental Protection Department.
- (2) A check in the amount of \$5,000.00 made payable to the Florida Department of Environmental Regulation, for the application processing fee.

It should be noted that this application is being submitted at this time "as is" at the request of the FDER and Orange County EPD in response to the public concern. C/TA had requested an extension to the original May 30, 1992, due date to conduct ISCST modeling for establishing better representation of the air emissions. These data were to be included in the initial submission of the application.

Please call if you have questions.

Sincerely,

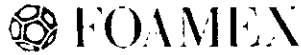
Frank L. Cross, Jr., P.E., D.E.E.  
President

FLC:kim  
Enc.a/s  
cc: Dennis Nester OCEPD  
Linda Spellmon Foamex LP  
Steve Bradley Foamex LP  
Charles A. Eavenson Foamex LP

REGISTERED PROFESSIONAL ENGINEERS

Federal ID # 59-1638534

CHECK DATE - 6/05/92



STATEMENT OF REMITTANCE

1  
238474 No. 238474

INVOICE DATE			INVOICE NUMBER	VOUCHER NO.	GROSS AMOUNT	DISCOUNT	NET AMOUNT
MO.	DAY	YR.					
6	04	92	OPERPERMIT		7500.00	.00	7500.00
							----- 7500.00

**FOAMEX**  
A Limited Partnership

1500 E. SECOND ST., EDDYSTONE, PA 19022

62-26  
311 1696-09

No. 238474

MO. DAY YR.  
6/05/92

PAY EXACTLY \*\*\*\*\*7500

DOLLARS 00

CENTS

DOLLARS CENTS  
\$7,500.00

TO THE ORDER OF: **FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION  
TWIN TOWERS OFFICE BLDG  
2600 BLAIR STONE ROAD  
TALLAHASSEE FL 32399-2400**

*Kenneth R. Fucetta*

MANUFACTURERS HANOVER BANK (DELAWARE)  
1201 MARKET STREET  
WILMINGTON, DELAWARE 19801

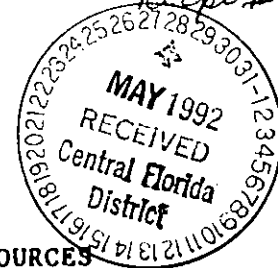
⑈00238474⑈ ⑆031100267⑆ 6301416966 509⑈

DEPARTMENT OF ENVIRONMENTAL REGULATION

CENTRAL FLORIDA DISTRICT  
3319 MAGUIRE BOULEVARD  
SUITE 202  
ORLANDO, FLORIDA 32803



AC 48-214962  
PSO-FL-189



APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Flexible Polyurethane Foam Product [ ] New<sup>1</sup> [x] Existing<sup>1</sup>

APPLICATION TYPE: [x] Construction [ ] Operation [ ] Modification

COMPANY NAME: FOAMEX L.P. COUNTY: Orange

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) Foam Line Exhaust Stack  
Boiler Exhaust Stack: (13) Unit Heater Exhaust Stacks

SOURCE LOCATION: Street 1351 Gemini Boulevard City Orlando

UTM: East 461,037 North 3,142,939

Latitude 28 ° 24 ' 15 "N Longitude 81 ° 23 ' 40 "W

APPLICANT NAME AND TITLE: Charles Eavenson, Plant Manager

APPLICANT ADDRESS: 1351 Gemini Boulevard, Orlando, FL 32821

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative\* of FOAMEX L.P.

I certify that the statements made in this application for a Construction Permit 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: Charles W. Eavenson

Charles Eavenson, Plant Manager  
Name and Title (Please Type)

Date: 5/28/92 Telephone No. (407) 857-2510

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

<sup>1</sup> See Florida Administrative Code Rule 17-2.100(57) and (104)



A Limited Partnership

May 20, 1991

To Whom it May Concern:

It is FOAMEX L.P.'s policy to designate each Plant Manager as the authorized company representative for the certification of any permit applications and environmental compliance reports.

A handwritten signature in cursive script, appearing to read "W.H. Bundy", written over a horizontal line.

Mr. W.H. Bundy  
Senior V.P. of Manufacturing  
FOAMEX L.P.

WHB/LJS/r

cc: Mr. R.J. Hay  
President  
FOAMEX L.P.

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. THIS CERTIFICATION DOES NOT ATTEST TO THE COMPLIANCE OF THIS FACILITY WITH THE FDER "FLORIDA AIR TOXICS WORKING LIST PERMITTING GUIDELINES.

Signed Frank L. Cross, Jr.

Frank L. Cross, Jr., P.E., President  
Name (Please Type)

Cross/Tessitore & Associates, P.A.  
Company Name (Please Type)

4763 S. Conway Road, Orlando FL 32812  
Mailing Address (Please Type)

Florida Registration No. 7916 Date: 5-27-92 Telephone No. (407) 851-1484

**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.

Please see page 2A

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

Start of Construction 1975 Completion of Construction 1976

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.)

N/A

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

N/A



## Section II: General Project Information

This process includes the following activities:

- 1) Production of flexible polyurethane foam using the slabstock production process.
- 2) A bonded foam (rebond) production process.
- 3) An industrial boiler: Clark Model D38-100-150, serial number A-2000, rated at 100 HP utilizing natural gas as a fuel source. The boiler is used to convert an average of 1,570 gallons of water to steam each day for the rebond process.(A)
- 4) 13 indirect fired heaters used as needed to produce heat. These sources do not operate over 400 hours/year. (A)

(A) Note: Reference FDER Section 17-2.210(2)(C)(3)

SLABSTOCK FOAM PRODUCTION ("Foam Line");

E. Requested permitted equipment operating time: hrs/day 3 ; days/wk 4 ; wks/yr 52 ;  
 Rebond foam production operating time: hrs/day 12 ; days/wk 6 ; wks/yr 52  
 if power plant, hrs/yr \_\_\_\_\_ ; if seasonal, describe: \_\_\_\_\_  
Industrial Boiler; 24 hrs/day; 7 days/wk; 52 weeks/year

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 justifi-  
 cation 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		
Please see				
Pages 4A and 4B				

B. Process Rate, if applicable: (See Section V, Item 1) (Maximum rates used for P120-32 Product)

1. Total Process Input Rate (lbs/hr): Slabstock: 40,125 lbs/hr; Rebond: 6,231 lbs/hr

2. Product Weight (lbs/hr): Slabstock: 36,199 lbs/hr; Rebond: 6,231 lbs/hr

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

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission Rate per Rule 17-2	Allowable <sup>3</sup> Emission lbs/hr	Potential <sup>4</sup> Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Methylene Chloride	1,593	316.75	N/A	N/A	633,500	316.75	5,6
Toluene							1: 5,6
Diisocyanate	0.4	0.13	N/A	N/A	0.4	0.13	2: 15, 17
1,1,1 Trichloroethane	4	0.81	N/A	N/A	4	0.81	11

<sup>1</sup>See Section V, Item 2. 1: Flow Diagram 1  
2: Flow Diagram 2

<sup>2</sup>Reference 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)

<sup>3</sup>Calculated from operating rate and applicable standard.

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

SECTION III, A. RAW MATERIALS AND CHEMICALS USED IN YOUR PROCESS

I. SLABSTOCK POLYURETHANE FOAM PRODUCTION, MATERIAL BALANCE FOR A TYPICAL FORMULATION

DESCRIPTION	CONTAMINANTS (WT.%)	UTILIZATION RATE (LBS/HR) FOR TYPICAL FORMULATION <sup>1</sup>	TOTAL EMISSIONS <sup>2</sup> (LBS/HR)	PRODUCT (LBS/HR)	SECTION ON FLOW DIAGRAM 1
POLYOL - 100% POLYOXYPROPYLENE / GLYCOL	None listed on MSDS	24,000.			1
TDI - 100% TOLUENE DIISOCYANATE	None listed on MSDS	13,420.	0.37		1,5,6
AMINE CATALYST: DABCO R-8020 80% - 2 DIMETHYLAMINOETHANOL 20% - DIAZABICYCLO (2,2,2) OCTANE 1,4	None listed on MSDS	79.			1
TIN CATALYST: T-9 STANNOUS OCTOATE	STANNOUS 2-ETHYL HEXANOATE, 3%	58.			1
WATER:	NONE	1,068.			2
METHYLENE CHLORIDE (DICHLOROMETHANE)	PROPYLENE OXIDE, 0.45-0.55%	1,320	1,320 <sup>3</sup>		1,5,6
SURFACTANT: L-820 POLYALKYLENEOXIDEMETHYLSILOXANE COPOLYMER	PROPYLENE OXIDE, 0.0003% TOLUENE, < 0.005%	180			1
SLABSTOCK FOAM PRODUCT		0		36,199	5
CARBON DIOXIDE		0	2,606 <sup>4</sup>		5,6

1. TYPICAL FORMULATION: Foam Grade P120-32, which represents the single largest foam grade produced at the Orlando Plant. Other formulations use varying quantities of process chemicals.
2. Total emissions consist of 50% stack and 50% fugitive emissions (estimated)
3. This conservative basis is used for air permitting purposes. Methylene Chloride is emitted throughout the cure cycle.
4. Not Regulated

SECTION III, A. RAW MATERIALS AND CHEMICALS USED IN YOUR PROCESS

II. REBOND POLYURETHANE FOAM PRODUCTION

<u>DESCRIPTION</u>	<u>CONTAMINANTS (WT.%)</u>	<u>UTILIZATION RATE (LBS/HR) FOR TYPICAL FORMULATIONS</u>	<u>TOTAL EMISSIONS (LBS/HR)</u>	<u>PRODUCT (LBS/HR)</u>	<u>SECTION ON FLOW DIAGRAM 2</u>
SCRAP FOAM (GROUND FOAM PIECES)	N/A	5,608.			1
POLYOL - 100% POLYOXYPROPYLENE / GLYCOL	NONE LISTED ON MSDS	459.			10
TDI - 100% TOLUENE DIISOCYANATE	NONE LISTED ON MSDS	164.	0.0037		10, 15
REBOND FOAM PRODUCT		0		6,321	17

III. GLUING DURING FABRICATION

<u>DESCRIPTION</u>	<u>UTILIZATION RATE (LBS/HR) FOR TYPICAL FORMULATIONS</u>	<u>TOTAL EMISSIONS (LBS/HR)</u>	<u>PRODUCT (LBS/HR)</u>	<u>SECTION ON FLOW DIAGRAM 1</u>
ALDOBOND 120, 81%, 1,1,1 TRICHLOROETHANE	2.5			11

D. Control Devices: (See Section V, Item 4) NOT APPLICABLE

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	AVERAGE Ft <sup>3</sup> /hr	MAXIMUM Ft <sup>3</sup> /hr	
Boiler, Natural Gas	4,200	4,200	4.2
Indirect Fire Heaters, Natural Gas (Unit Heaters)	200	200	0.2

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

Fuel Analysis:

Percent Sulfur: N/A Percent Ash: N/A

Density: Negligible lbs/gal Typical Percent Nitrogen: 0.4

Heat Capacity: 1000 BTU/Ft<sup>3</sup> --- BTU/gal

Other Fuel Contaminants (which may cause air pollution): NONE

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.

NONE

H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack): See pg. 6A

Stack Height: \_\_\_\_\_ ft. Stack Diameter: \_\_\_\_\_ ft.  
 Gas Flow Rate: \_\_\_\_\_ ACFM \_\_\_\_\_ DSCFM Gas Exit Temperature: \_\_\_\_\_ °F.  
 Water Vapor Content: \_\_\_\_\_ % Velocity: \_\_\_\_\_ FPS

SECTION IV: INCINERATOR INFORMATION N/A

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							
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) <sup>3</sup>	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) \_\_\_\_\_

## H. Emission Stack Geometry and Flow Characteristics

### Summary

<u>Point Source</u>	<u>Stack Height (Ft.)</u>	<u>Stack Dia.(Ft.)</u>	<u>Gas Flow Rate(ACFM)</u>	<u>Gas Exit Temp(°F)</u>	<u>Water Vapor Content %</u>	<u>Velocity (FPS)</u>
1	80	3.6	28,863	60-95	1.0	47.3
2	15.5	1.22	70	450	6.0	1.0
3 - 15	27.5	0.67	174	190	1.0	8.3

### Calculations

#### POINT SOURCE 1

$$A = \frac{\pi d^2}{4}$$

$$A = \frac{(3.14) 3.6^2}{4}$$

$$A = 10.17 \text{ Ft}^2$$

$$\text{Velocity} = \frac{\text{Airflow Rate}}{\text{Stack Area}} \times \frac{1}{60 \text{ sec/min}}$$

$$V = \frac{28,863 \text{ Ft}^3/\text{min}}{10.17 \text{ Ft}^2} \times \frac{1}{60 \text{ sec/min}}$$

$$V = 47.3 \text{ Ft/sec}$$

#### POINT SOURCE 2

$$A = \frac{\pi d^2}{4}$$

$$A = \frac{(3.14) 1.22^2}{4}$$

$$A = 1.17 \text{ Ft}^2$$

$$\text{Velocity} = \frac{\text{Airflow Rate}}{\text{Stack Area}} \times \frac{1}{60 \text{ sec/min}}$$

$$V = \frac{70 \text{ Ft}^3/\text{min}}{1.17 \text{ Ft}^2} \times \frac{1}{60 \text{ sec/min}}$$

$$V = 1.0 \text{ Ft/sec}$$

#### POINT SOURCES 3 - 15

$$A = \frac{\pi d^2}{4}$$

$$A = \frac{(3.14) 0.67^2}{4}$$

$$A = 0.35 \text{ Ft}^2$$



H. (Continued)

$$\text{Velocity} = \frac{\text{Airflow Rate}}{\text{Stack Area}} \times \frac{1}{60 \text{ sec/min}}$$

$$V = \frac{174 \text{ Ft}^3/\text{min}}{0.35 \text{ Ft}^2} \times \frac{1}{60 \text{ sec/min}}$$

$$V = 8.3 \text{ Ft/sec}$$

Brief description of operating characteristics of control devices: N/A

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

N/A

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.

**SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY** N/A

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:
- 7. Energy:
- 9. Emissions:

- 6. Operating Costs:
- 8. Maintenance Cost:

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:<sup>1</sup> d. Capital Cost:
- e. Useful Life: f. Operating Cost:
- g. Energy:<sup>2</sup> 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:<sup>1</sup> d. Capital Cost:
- e. Useful Life: f. Operating Cost:
- g. Energy:<sup>2</sup> h. Maintenance Cost:
- i. Availability of construction materials and process chemicals:

<sup>1</sup> Explain method of determining efficiency.

<sup>2</sup> Energy 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:<sup>1</sup>

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:<sup>2</sup>

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:<sup>1</sup>

d. Capital Costs:

e. Useful Life:

f. Operating Cost:

g. Energy:<sup>2</sup>

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:<sup>1</sup>

3. Capital Cost:

4. Useful Life:

5. Operating Cost:

6. Energy:<sup>2</sup>

7. Maintenance Cost:

8. Manufacturer:

9. Other locations where employed on similar processes:

a. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

<sup>1</sup> Explain method of determining efficiency.

<sup>2</sup> Energy to be reported in units of electrical power - KWH design rate.

- (5) Environmental Manager:
- (6) Telephone No.:
- (7) Emissions:<sup>1</sup>

Contaminant	Rate or Concentration

(8) Process Rate:<sup>1</sup>

- 5. (1) Company:
- (2) Mailing Address:
- (3) City: (4) State:
- (5) Environmental Manager:
- (6) Telephone No.:
- (7) Emissions:<sup>1</sup>

Contaminant	Rate or Concentration

(8) Process Rate:<sup>1</sup>

10. Reason for selection and description of systems:

<sup>1</sup>Applicant 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** **N/A**

A. Company Monitored Data

1. \_\_\_\_\_ no. sites \_\_\_\_\_ TSP \_\_\_\_\_ ( ) SO<sub>2</sub>\* \_\_\_\_\_ 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.

<sup>‡</sup>Specify bubbler (B) or continuous (C).

2. Instrumentation, Field and Laboratory

- a. Was instrumentation EPA referenced or its equivalent?  Yes  No
- b. Was instrumentation calibrated in accordance with Department procedures?  
 Yes  No  Unknown

B. Meteorological Data Used for Air Quality Modeling

- 1. \_\_\_\_\_ Year(s) of data from \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ to \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
month day year month day year
- 2. Surface data obtained from (location) \_\_\_\_\_
- 3. Upper air (mixing height) data obtained from (location) \_\_\_\_\_
- 4. Stability wind rose (STAR) data obtained from (location) \_\_\_\_\_

C. Computer Models Used

- 1. \_\_\_\_\_ Modified? If yes, attach description.
- 2. \_\_\_\_\_ Modified? If yes, attach description.
- 3. \_\_\_\_\_ Modified? If yes, attach description.
- 4. \_\_\_\_\_ Modified? If yes, attach description.

Attach copies of all final model runs showing input data, receptor locations, and principle output tables.

D. Applicants Maximum Allowable Emission Data

Pollutant	Emission Rate
TSP	_____ grams/sec
SO <sup>2</sup>	_____ grams/sec

E. Emission Data Used in Modeling

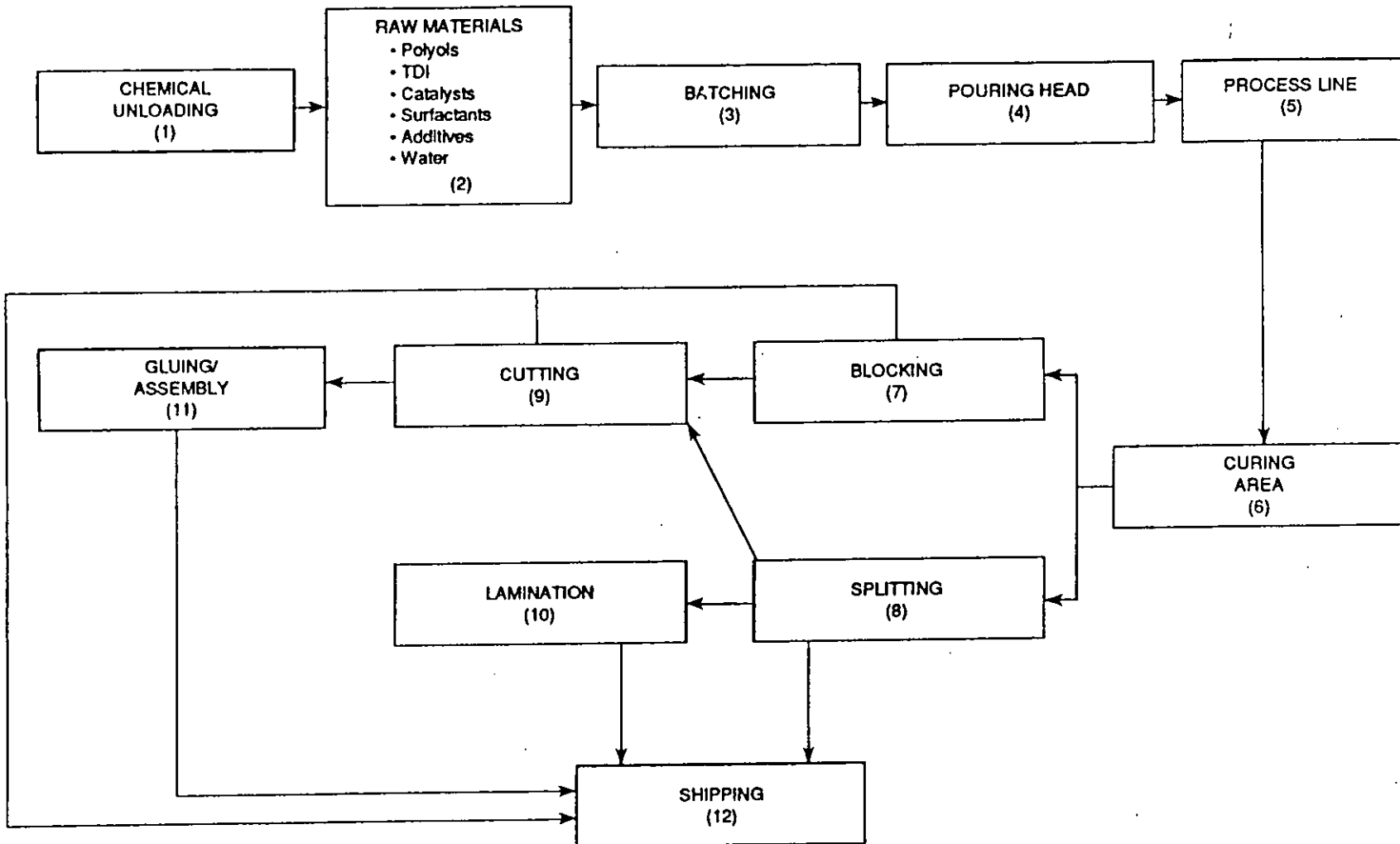
Attach list of emission sources. Emission data required is source name, description of point source (on NEDS point number), UTM coordinates, stack data, allowable emissions, and normal operating time.

F. Attach all other information supportive to the PSD review.

G. Discuss the social and economic impact of the selected technology versus other applicable technologies (i.e., jobs, payroll, production, taxes, energy, etc.). Include assessment of the environmental impact of the sources.

H. Attach scientific, engineering, and technical material, reports, publications, journals, and other competent relevant information describing the theory and application of the requested best available control technology.

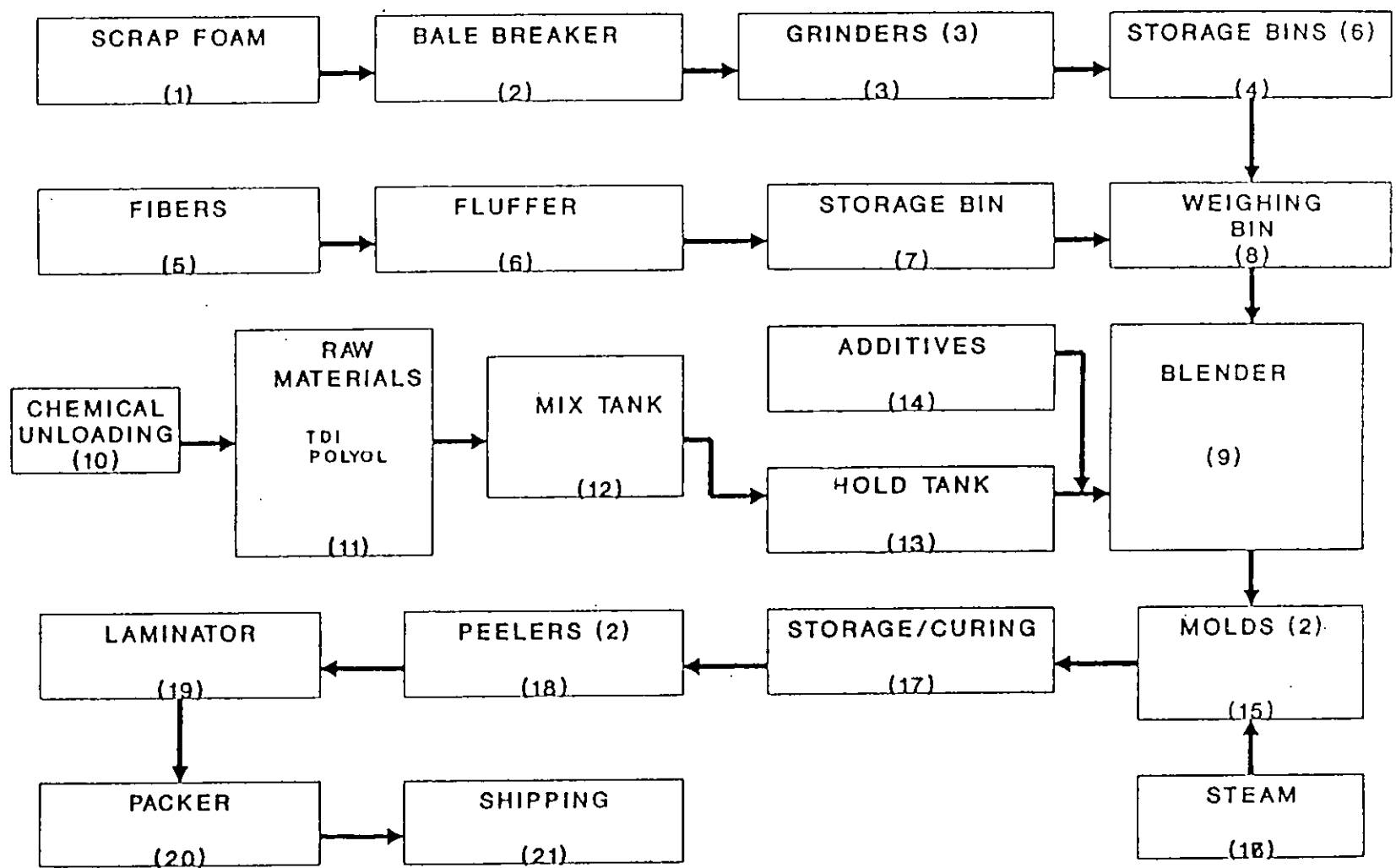
# FLOW DIAGRAM 1: SLABSTOCK PRODUCTION OF FLEXIBLE POLYURETHANE FOAM

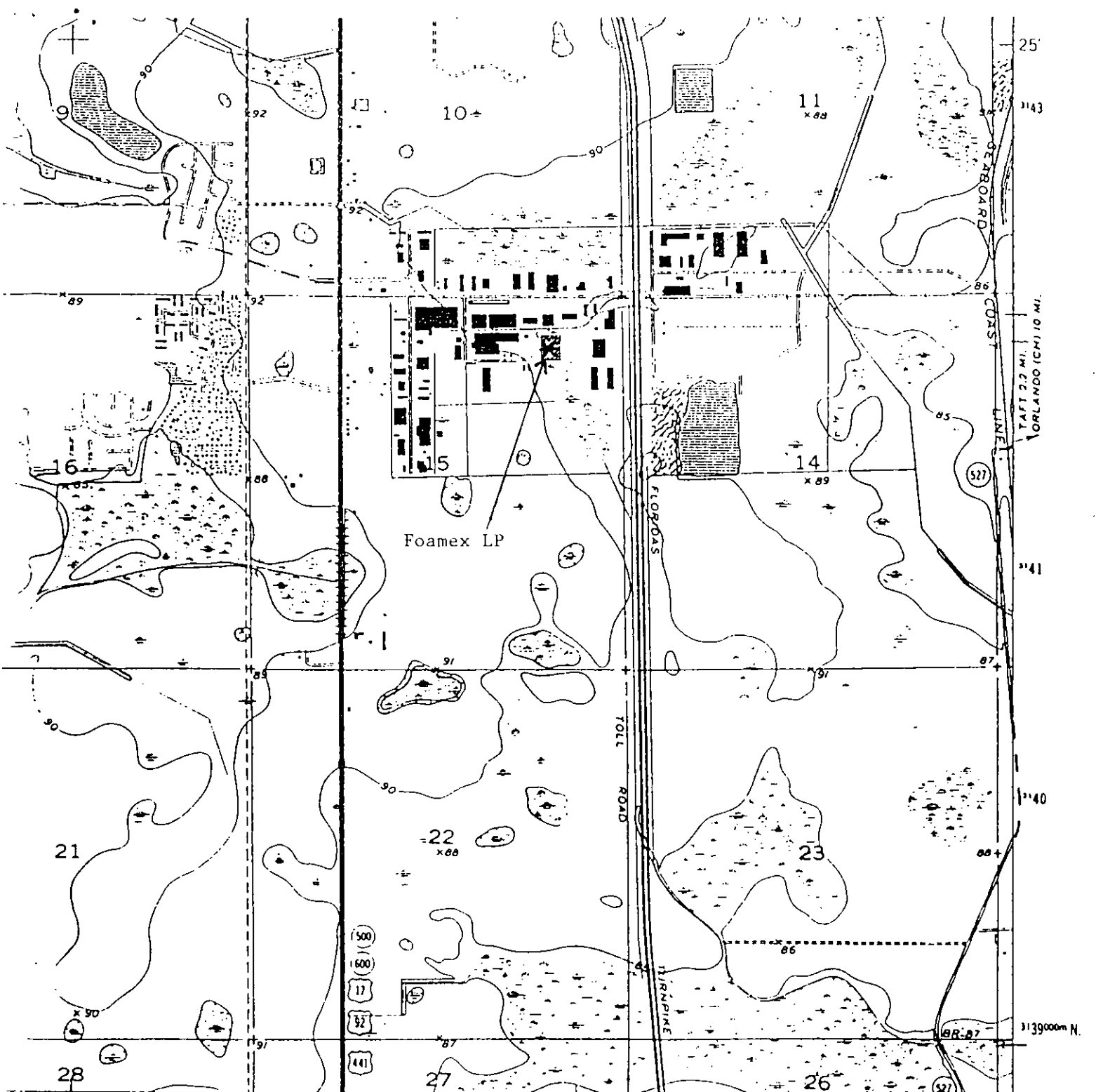


SECTION V  
ITEM 6a  
PROCESS FLOW DIAGRAM



SECTION V  
ITEM 6b  
PROCESS FLOW DIAGRAM





ROAD CLASSIFICATION

- Heavy duty —————
- Medium-duty —————
- Light-duty - - - - -
- Unimproved dirt . . . . .
- Interstate Route (circle with shield)
- U S Route (square with shield)
- State Route (circle with number)



QUADRANGLE LOCATION

FOAMEX L.P.  
SECTION V  
ITEM 7  
U.S.G.S. MAP

N2822.5-W8122.5/7.5

1953  
PHOTOREVISED 1980  
DMA 4740 IV NW-SERIES V847

1ST. CLOUD

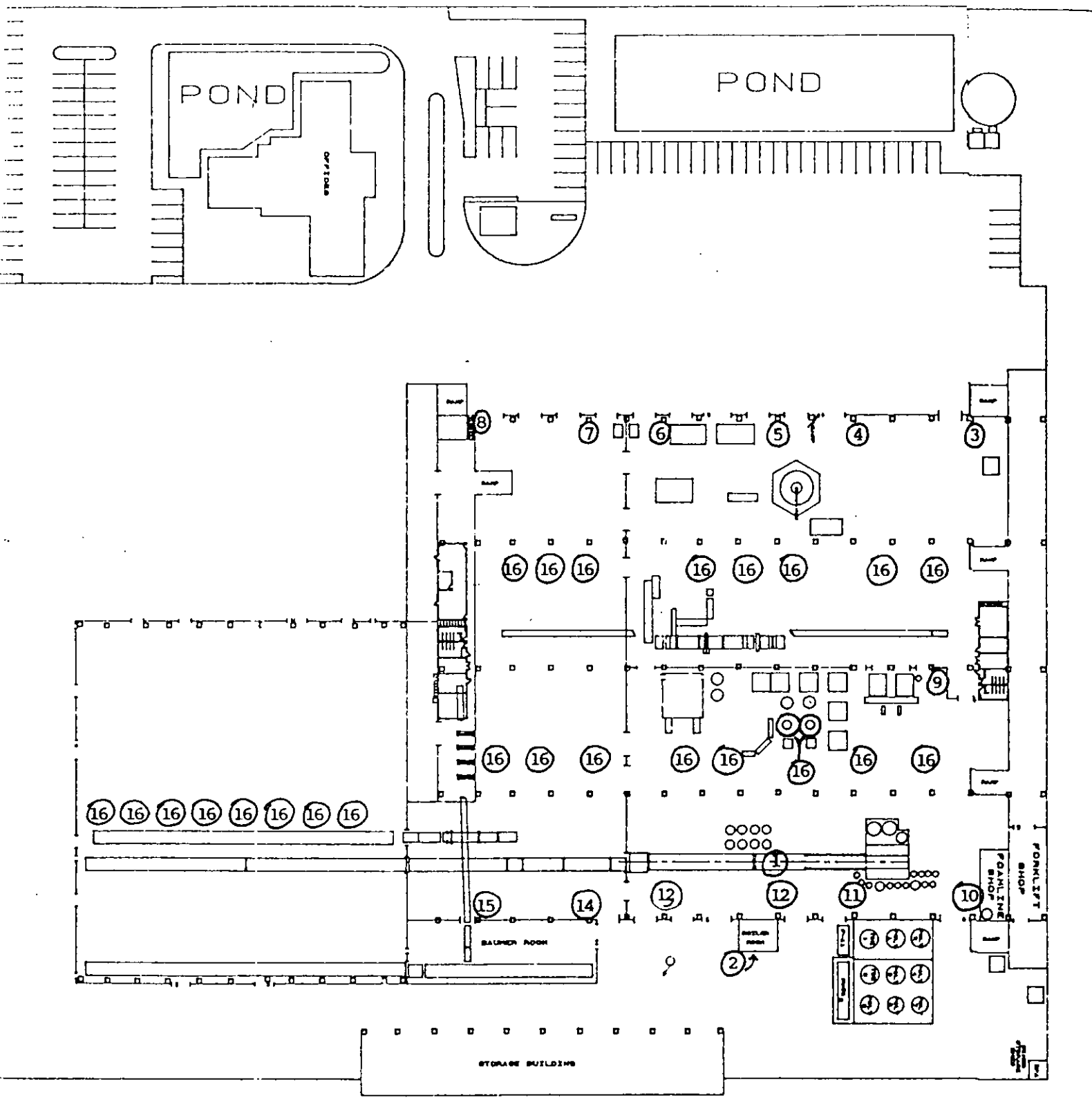


FIGURE 1 FOAMEX L.P. Orlando Plant  
Locations of Emission Sources

- KEY: 1: Foam Line Exhaust Stack  
 2: Boiler Exhaust Stack  
 3-15: Unit Heater (Indirect fired Heater) Exhaust Stacks  
 16: Exhaust Fans, 50,000 CFM x 25 Locations

PLOT PLAN  
SECTION V  
ITEM 8