

Florida Department of Environmental Regulation

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

Lawton Chiles, Governor

Carol M. Browner, Secretary

September 30, 1991

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. Tom T. John, P.E.
Tom T. John Engineering, Inc.
7522 N. 40th Street
Tampa, Florida 33604

Dear Mr. John:

Re: Request for Approval of Procedure for Assessing Monthly VOCs
Chris Craft Boats: AC 41-165851

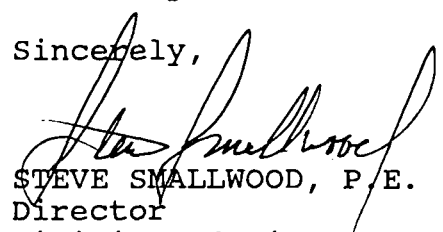
The Department has reviewed your letter received September 11, 1991, requesting approval of a procedure to assess monthly VOCs (volatile organic compounds) at the above referenced facility. After discussions between the Department's Southwest District and Bureau of Air Regulation, the proposed procedure is acceptable. Therefore, the following shall be added:

Attachment to be Incorporated:

- o Mr. Tom T. John's letter received September 11, 1991.

This letter must be attached to the air construction permit, No. AC 41-165851, and shall become a part of the permit.

Sincerely,


STEVE SMALLWOOD, P.E.
Director
Division of Air Resources
Management

SS/BM/rbm

Attachment

cc: B. Thomas, SW District
R. Evangelisti, OMC
C. Lashley, CCB

Mr. Bruce Mitchell
Air Permitting Engineer
Florida Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

RECEIVED

SEP 11 1991

Division of Air
Resources Management

26 August, 1991

re: Air Construction Permit AC41-165851
Chris Craft VOC

Dear Mr. Mitchell,

In the referenced construction permit, specific condition 3 and 4 set limitations on the hourly and annual chemical usage. Compliance is to be demonstrated on a monthly basis by applying a material balance scheme as noted.

The applicant proposes to comply with specific condition 3 and 4 by making physical measurements of the requested chemicals on a monthly basis. Hourly usage will then be calculated based on manhours of lamination on a daily basis. Total daily lamination manhours will be logged with notation given to number of hours of operations per shift to better represent the hourly chemical usage values calculated. The applicant recognizes that this procedure "back calculates" the data for the previous month. To ensure compliance, scheduled laminating hours for the forthcoming month will be used to predict chemical usages. In the unlikely event that these projections indicate potential exceedence, appropriate changes in scheduling or other operational variations can be made. Monthly reports will be summarized (i.e. the spreadsheet configuration we previously discussed) to prepare the required annual emission report.

The applicant would appreciate your opinion as to whether this proposed scheme will adequately address the requirements of specific conditions 3 and 4.

The applicant appreciates your consideration and assistance in this request. If you have any questions or wish to discuss the project in more detail, please call me at (813) 985-7881.

Sincerely,



Tom T. John, P.E.

cc: Jim M^e Donald, DER-SW
Robert Evangelist, OMC
Chris Lashley, Chris Craft

TTJ/mlc oac\voednft.wp

Mr. T. P. Robinson

Page 2

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 Amendment 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;

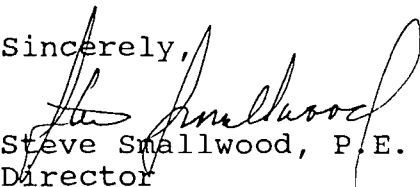
(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and,

(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 request/application 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 publication 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 letter must be attached to the construction permit, No. AC 41-165851, and shall become a part of the permit.

Sincerely,



Steve Smallwood, P.E.
Director

Division of Air Resources
Management

Mr. T. P. Robinson
Page 3

SS/BM/rbm

Attachment

cc: B. Thomas, SWD
J. Harper, EPA
T. John, P.E., TTJEI
R. Evangelisti, P.E., OMC
G. Smallridge, Esq., DER

Chris Craft

#50th pd.
3-23-92
Recpt. # 182951
RECEIVED
DER-MAIL ROOM

1992 MAR 23 PM 1:33

March 19, 1992

Mr. Clair Fancy, P.E.
Bureau of Air Regulation
Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, Florida 32349

RE: AC41-165851 - Chris Craft Boats

Dear Mr. Fancy:

On April 22, 1992, the Occupational Safety and Health Administration conducted an inspection of the OMC Chris Craft, Inc. boat plant located at 8161 15th Street E., Sarasota, Florida.

OSHA's concerns addressed the laminating process resulting in workers exposure to styrene. In response to the citation issued on October 2, 1991, it became necessary to review and possibly change some of the exhaust and intake methods used in the lamination building.

In an effort to immediately reduce the styrene to air ratio, thus improving the workers exposure levels, the ceiling exhaust fans were changed to intake fans maintaining the same CFM. While this had an immediate positive effect, it has not yet been determined if and what other changes will be necessary to come into compliance with the Permissible Exposure Limits.

Because we are continuing to address this OSHA issue, and due to its related complexity, OMCCC, Inc. requests the Department to grant a 12 month extension of the AC permit.

Although OMCCC, Inc. is permitted for 137.5 tons of styrene emissions per year, our records indicate that our actual styrene emission over the last year was 41 (+/-) tons. Because this emission is relatively low in comparison, OMCCC, Inc. feels we are not, nor will we be, negatively impacting the environment during this period while attempting to comply with both OSHA and the DER.

001631

Air Regulation

8161 15th Street East, Sarasota, Florida 34243
813-351-4900 FAX 813-351-8974

OMCCC, INC. A subsidiary of Outboard Marine Corporation.
Chris-Craft is a registered trademark of Chris-Craft Industries, Inc.

Mr. Clair Fancy, P.E.
Bureau of Air Regulation
Department of Environmental Regulation
March 19, 1992
Page 2

I thank you in advance for your consideration of this request.
Should additional information be necessary, please contact me at
(813) 351-4900.

Very truly yours,



Robert D. Murray
Director of Manufacturing

RDM/pm
Enclosures

B. Mitchell

E. Thomas, SW Dist.

Citation and Notification of Penalty

U.S. Department of Labor - OSHA
Room 624
20 Twigg Street
Tampa, FL 33602

BEST AVAILABLE COPY

The violation(s) described in this Citation are alleged to have occurred on or about the day the inspection was made unless otherwise indicated within the description given below.

3. Issuance Date 10/02/91	4. Inspection Number 106383094
5. Reporting ID 0420600	6. CSHO ID V9402
7. Optional Report No. 559	8. Page No. 7 of 13

Penalties Are Due Within 15 Days of Receipt of This Notification Unless Contested (See enclosed Booklet)

This Section May Be Detached Before Posting

1. Type of Violation(s)	2. Citation Number
Serious	01

10. Inspection Date(s):
4/22/91 - 9/25/91

11. Inspection Site:
8161 15TH street East
SARASOTA, FL 34243

9. To:
OMCCC, Inc. dba Chris Craft
and its successors
8161 15TH street East
SARASOTA, FL 34243

THE LAW REQUIRES that a copy of this Citation be posted immediately in a prominent place at or near the location of violation(s) cited below. The Citation must remain posted until the violations cited below have been abated, or for 3 working days (excluding weekends and Federal holidays), whichever is longer.

This Citation describes violations of the Occupational Safety and Health Act of 1970. The penalty(ies) listed below are based on these violations. You must abate the violations referred to in this Citation by the dates listed below and pay the penalties proposed, unless within 15 working days (excluding weekends and Federal holidays) from your receipt of this Citation and penalty you mail a notice of contest to the U.S. Department of Labor Area Office at the address shown above. (See the enclosed booklet which outlines your rights and responsibilities and should be read in conjunction with this form.) You are further notified that unless you inform the Area Director in writing that you intend to contest the Citation or proposed penalties within 15 working days after receipt, this Citation and the proposed penalties will become a final order of the Occupational Safety and Health Review Commission and may not be reviewed by any court or agency. Issuance of this Citation does not constitute a finding that a violation of the Act has occurred unless there is a failure to contest as provided for in the Act or, if contested, unless the Citation is affirmed by the Review Commission.

12. Item Number	13. Standard, Regulation or Section of the Act Violated	14. Description	15. Date by Which Violation Must Be Abated	16. Penalty
	CFR 1910.1000(a)(3): Employee(s) were exposed to an airborne concentration of styrene listed in Table Z-1-A (Final Rule Limits column) in excess of 50 ppm:	<p>For the following alleged violations, the employees as identified were exposed to styrene at the concentrations listed. The limit for styrene is established to prevent irritation, central nervous system effects, narcotics, and/or mutagenic effects. The sample results were obtained from multiple samples with a zero increment for all unsampled periods.</p> <p>1) An employee rolling out (laminating) small parts was exposed to 61.3 ppm (1.23 times the permissible limit) as an 8-hour time-weighted average; sampling period was 319 minutes on 8/9/91.</p> <p>2) An employee operating a chopper gun to laminate a hull</p>	11/05/91	

*EXEMPTED
CALC AS
AIR TIME (8)
OF 319 MIN-9*

Rafael Rodriguez
Lawrence J. Falck

17. Area Director

Last Pg

NOTICE TO EMPLOYEES — The law gives an employee or his representative the opportunity to object to any abatement date set for a violation if he believes the date to be unreasonable. The contest must be mailed to the U.S. Department of Labor Area Office at the address shown above within 15 working days (excluding weekends and Federal holidays) of the receipt by the employer of this Citation and penalty.

EMPLOYER DISCRIMINATION UNLAWFUL — The law prohibits discrimination by an employer against an employee for filing a complaint or for exercising any rights under this Act. An employee who believes that he has been discriminated against may file a complaint no later than 30 days after the discrimination with the U.S. Department of Labor Area Office at the address shown above.

EMPLOYER RIGHTS AND RESPONSIBILITIES — The enclosed booklet outlines employer rights and responsibilities and should be read in conjunction with this notification.

Total Penalty for This Citation
Make Check or Money Order Payable to: "DOL-OSHA"
Indicate Inspection Number on Remittance

ORIGINAL

Notice of Citation and Notification of Penalty

OSHA
 624
 Twigg's Street
 Sarasota, FL 33602

3. Issuance Date 10/02/91	4. Inspection Number 105383094
5. Reporting ID 0420800	6. OSHA ID 07402
7. Optional Report No. 559	8. Page No. 8 of 13

The violation(s) described in this Citation are alleged to have occurred on or about the day the inspection was made unless otherwise indicated within the description given below.

10. Inspection Date(s):
4/22/91 - 9/25/91

11. Inspection Site:
8161 15TH street East
SARASOTA, FL 34243

Type of Violation(s)	2. Citation Number
Serious	01

To:
 CCC, Inc. dba Chris Craft
 and its successors
 61 15TH street East
 SARASOTA, FL 34243

LAW REQUIRES that a copy of this Citation be posted immediately in a prominent place at or near the location of violation(s) cited below. The citation must remain posted until the violations cited below have been abated, or for 3 working days (excluding weekends and Federal holidays), whichever is longer.

This citation describes violations of the Occupational Safety and Health Act of 1970. The penalty(ies) listed below are based on these violations. You must pay the penalties referred to in this Citation by the dates listed below and pay the penalties proposed, unless within 15 working days (excluding weekends and Federal holidays) from your receipt of this Citation and penalty you mail a notice of contest to the U.S. Department of Labor Area Office at the address shown above. (See the enclosed booklet which outlines your rights and responsibilities and should be read in conjunction with this form.) You are further notified that unless you inform the Area Director in writing that you intend to contest the Citation or proposed penalties within 15 working days after receipt of this citation and the proposed penalties will become a final order of the Occupational Safety and Health Review Commission and may not be reviewed by any other agency. Issuance of this Citation does not constitute a finding that a violation of the Act has occurred unless there is a failure to contest as provided in the Act or, if contested, unless the Citation is affirmed by the Review Commission.

13. Citation Number	14. Description	15. Date by Which Violation Must Be Abated	16. Penalty
	<p>Employee was exposed to 103 ppm (2.0 times the permissible limit) as an 8-hour time-weighted average; sampling period was 370 minutes on 8/13/91.</p> <p>3) An employee rolling out (laminating) in a hull was exposed to 108 ppm (2.1 times the permissible limit) as an 8-hour time-weighted average; sampling period was 326 minutes on 8/13/91</p> <p>4) An employee rolling out (laminating) on a deck section was exposed to 115 ppm (2.3 times the permissible limit) as an 8-hour time-weighted average; sampling period was 310 minutes on 8/13/91.</p>		

SAMPLE AS

Director *Rafael Rodriguez*
 Lawrence J. Falck

Last Pg

RIGHTS TO EMPLOYEES — The law gives an employee or representative the opportunity to object to any abatement set for a violation if he believes the date to be abated is not reasonable. The contest must be mailed to the U.S. Department of Labor Area Office at the address shown above within 15 working days (excluding weekends and holidays) of the receipt by the employer of this Citation and penalty.

EMPLOYER DISCRIMINATION UNLAWFUL — The law prohibits discrimination by an employer against an employee for filing a complaint or for exercising any rights under this Act. An employee who believes that he has been discriminated against may file a complaint no later than 30 days after the date of the discrimination with the U.S. Department of Labor Area Office at the address shown above.

EMPLOYER RIGHTS AND RESPONSIBILITIES — The enclosed booklet outlines employer rights and responsibilities and should be read in conjunction with this notification.

Penalties Are Due Within 15 Days of Receipt of This Notification Unless Contested (See enclosed Booklet)

This Section May Be Detached Before Posting

Total Penalty for This Citation
 Make Check or Money Order Payable to: "DOL-OSHA"
 Indicate Inspection Number on Remittance

Citation and Notification of Penalty
U.S. Department of Labor
OSHA
Form 624
200 Twigg Street
Sarasota, FL 33602

BEST AVAILABLE COPY

3. Issuance Date 10/02/91	4. Inspection Number 106383094
5. Reporting ID 0420600	6. CSHO ID V9402
7. Optional Report No. 559	8. Page No. 9 of 13

The violation(s) described in this Citation are alleged to have occurred on or about the day the inspection was made unless otherwise indicated within the description given below.

10. Inspection Date(s):

4/22/91 - 9/25/91

11. Inspection Site:

8161 15TH street East
SARASOTA, FL 34243

1. Type of Violation(s)	2. Citation Number
Serious	01

To:
MCCC, Inc. dba Chris Craft
and its successors
8161 15TH street East
SARASOTA, FL 34243

THE LAW REQUIRES that a copy of this Citation be posted immediately in a prominent place at or near the location of violation(s) cited below. The citation must remain posted until the violations cited below have been abated, or for 3 working days (excluding weekends and Federal holidays), whichever is longer.

This Citation describes violations of the Occupational Safety and Health Act of 1970. The penalty(ies) listed below are based on these violations. You must abate the violations referred to in this Citation by the dates listed below and pay the penalties proposed, unless within 15 working days (excluding weekends and Federal holidays) from your receipt of this Citation and penalty you mail a notice of contest to the U.S. Department of Labor Area Office at the address shown above. (See the enclosed booklet which outlines your rights and responsibilities and should be read in conjunction with this form.) You are further notified that unless you inform the Area Director in writing that you intend to contest the Citation or proposed penalties within 15 working days after receipt, this Citation and the proposed penalties will become a final order of the Occupational Safety and Health Review Commission and may not be reviewed by any court or agency. Issuance of this Citation does not constitute a finding that a violation of the Act has occurred unless there is a failure to contest as provided in the Act or, if contested, unless the Citation is affirmed by the Review Commission.

Item Number	14. Description	15. Date by Which Violation Must Be Abated	16. Penalty
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FR 1910.1000(a)(3): Employee(s) were exposed to an airborne concentration of styrene listed in Table Z-1-A (Final Rule column) in excess of 100 ppm:

For the following alleged violations the employees as identified were exposed to styrene for the time ranges and at the concentrations listed. The limit for styrene is established to prevent irritation, central nervous system effects, narcosis, and/or mutagenic effects. The sample results were derived from individual continuous samples:

- 1) An employee rolling out (laminating) small parts was exposed at 130 to 140 ppm (1.3 to 1.4 times the permissible limits) for time frames of 39 to 44 minutes on 8/9/91.
- 2) An employee glassing-in the wood framework into a hull was exposed at 104 to 123 ppm (1.04 to 1.2 times the permissible limits) for time frames of 51 to 66 minutes on 8/12/91.

*ADD PAYS
CORRY 10/9*

Area Director *Rafael Rodriguez*
Lawrence J. Falck

Last Pg

RIGHT TO EMPLOYEES — The law gives an employee or representative the opportunity to object to any abatement date set for a violation if he believes the date to be unreasonable. The contest must be mailed to the U.S. Department of Labor Area Office at the address shown above within 15 working days (excluding weekends and Federal holidays) of the receipt by the employer of this Citation and penalty.

EMPLOYER DISCRIMINATION UNLAWFUL — The law prohibits discrimination by an employer against an employee for filing a complaint or for exercising any rights under this Act. An employee who believes that he has been discriminated against may file a complaint no later than 30 days after the discrimination with the U.S. Department of Labor Area Office at the address shown above.

EMPLOYER RIGHTS AND RESPONSIBILITIES — The enclosed booklet outlines employer rights and responsibilities and should be read in conjunction with this notification.

Total Penalty for This Citation
Make Check or Money Order Payable to: "DOL-OSHA"
Indicate Inspection Number on Remittance

Penalties Are Due Within 15 Days of Receipt of This Notification Unless Contacted (See enclosed Booklet)

This Section May Be Detached Before Posting



and Notification of Penalty

Street 33602

The violation(s) described in this Citation are alleged to have occurred on or about the day the inspection was made unless otherwise indicated within the description given below.

3. Issuance Date 10/02/91	4. Inspection Number 106383094
5. Reporting ID 0420800	6. CSHO ID 097402
7. Optional Report No. 559	8. Page No. 10 of 13

Penalties Are Due Within 15 Days of Receipt of This Notification Unless Contested (See enclosed Booklet)

1. Violation(s)	2. Citation Number
rious	01

10. Inspection Date(s): 4/22/91 - 9/25/91

11. Inspection Site: 8161 15TH street East SARASOTA, FL 34243

Inc. dba Chris Craft successors TH street East A, FL 34243

This Section May Be Detached Before Posting

QUIRES that a copy of this Citation be posted immediately in a prominent place at or near the location of violation(s) cited below. The remain posted until the violations cited below have been abated, or for 3 working days (excluding weekends and Federal holidays), whichever

cribes violations of the Occupational Safety and Health Act of 1970. The penalty(ies) listed below are based on these violations. You must ions referred to in this Citation by the dates listed below and pay the penalties proposed, unless within 15 working days (excluding weekends idays) from your receipt of this Citation and penalty you mail a notice of contest to the U.S. Department of Labor Area Office at the address See the enclosed booklet which outlines your rights and responsibilities and should be read in conjunction with this form.) You are further ess you inform the Area Director in writing that you intend to contest the Citation or proposed penalties within 15 working days after receipt, the proposed penalties will become a final order of the Occupational Safety and Health Review Commission and may not be reviewed by any ssuance of this Citation does not constitute a finding that a violation of the Act has occurred unless there is a failure to contest as provided ; If contested, unless the Citation is affirmed by the Review Commission.

14. Description	15. Date by Which Violation Must Be Abated	16. Penalty
<p>An employee operating a chopper gun to laminate a hull was sed at 111 to 269 ppm (1.1 to 2.6 times the permissible limits) time frames of 65 to 100 minutes 8/13/91.</p> <p>An employee rolling out (laminating) in a hull was exposed at to 420 ppm (1.06 to 4.2 times the permissible limits) for time es of 37 to 62 minutes on 8/13/91.</p> <p>An employee rolling out (laminating) on a deck section was sed at 112 to 318 ppm (1.1 to 3.2 times the permissible limits) time frames of 20 to 85 minutes on 8/13/91.</p> <p>An employee operating a chopper gun to laminate a deck section exposed at 139 to 178 ppm (1.3 to 1.7 times the permissible cs) for time frames of 35 to 49 minutes on 8/13/91.</p>		

SAT

Rafael Rodriguez

Lawrence J. Falck

Last Pg

EMPLOYEES — The law gives an employee or tive the opportunity to object to any abate- for a violation if he believes the date to be The contest must be mailed to the U.S. Labor Area Office at the address shown 15 working days (excluding weekends and ys) of the receipt by the employer of this Cita- y.

EMPLOYER DISCRIMINATION UNLAWFUL — The law pro- hibits discrimination by an employer against an employee for filing a complaint or for exercising any rights under this Act. An employee who believes that he has been discriminated against may file a complaint no later than 30 days after the discrimination with the U.S. Department of Labor Area Of- fice at the address shown above.

RIGHTS AND RESPONSIBILITIES — The enclosed booklet outlines employer rights and responsibilities and in conjunction with this notification.

Total Penalty for This Citation Make Check or Money Order Payable to: "DOL-OSHA" Indicates Inspection Number on Remittance

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT

In the matter of an
Application for Permit by:

DER File No. AC 41-165851
Manatee County

Mr. T. P. Robinson, V.P. and General Manager
Chris Craft Boats
8161 Old Bradenton Road
Post Office Box 25022
Bradenton, Florida 34206

Enclosed is Permit Number AC 41-165851 for the after-the-fact permit for Chris Craft Boats's fiberglass boat manufacturing facility, issued pursuant to Section(s) 403, Florida Statutes.

Any party to this Order (permit) has the right to seek judicial review of the permit 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 of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this Notice is filed with the Clerk of the Department.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

f w
Barry D. Andrews
C. H. Fancy, P.E., Chief
Bureau of Air Regulation
2600 Blair Stone Road
Tallahassee, FL 32399-2400
904-488-1344

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of business on 7-19-91 to the listed persons.

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED,
on this date, pursuant to
§120.52(11), Florida Statutes,
with the designated Department
Clerk, receipt of which is hereby
acknowledged.

Keri Jober
(Clerk)

7-19-91
(Date)

Copies furnished to:

B. Thomas, SWD
J. Harper, EPA
T. T. John, P.E., TTJE, Inc.
R. Evangelisti, P.E., OMC
R. Baum, P.E

Final Determination

Chris Craft Boats
Manatee County
Tallevast, Florida

Construction Permit No.
AC 41-165851

Department of Environmental Regulation
Division of Air Resources Management
Bureau of Air Regulation

June 26, 1991

Final Determination

The construction permit application package and supplementary material have been reviewed by the Department. Public Notice of the Department's Intent to Issue was published in The Bradenton Herald on May 31, 1991. The Technical Evaluation and Preliminary Determination was distributed on May 22, 1991, and available for public inspection at the Department's Southwest District office and the Department's Bureau of Air Regulation office.

There were no comments received during the public notice period. Therefore, it is recommended that the construction permit be issued as drafted.



Florida Department of Environmental Regulation

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

Lawton Chiles, Governor

Carol M. Browner, Secretary

PERMITTEE:
Chris Craft Boats
Post Office Box 25022
Bradenton, Florida 34206

Permit Number: AC 41-165851
Expiration Date: July 31, 1992
County: Manatee
Latitude/Longitude: 27°23'31"N
82°32'43"W

Project: Fiberglass Boat
Manufacturing: Fiberglassing
Application Operation

This after-the-fact permit is issued under the provisions of Chapter 403, Florida Statutes, Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4, and 40 CFR (July, 1990 version). The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawings, plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the after-the-fact permitting of a facility that produces fiberglass boats. The existing exhaust system will be upgraded to 60,000 acfm. The facility is located at 8161 Old Bradenton Road in Tallevast, Manatee County, Florida. The UTM coordinates are Zone 17, 347.215 km East and 3030.633 km North.

The SIC is: 3732 - Boat Manufacturing Plant
The SCC is: 3-08-007-20 General Fiberglass Resin Products
Tons Coating Applied

The source shall be in accordance with the permit application, plans, documents, supplementary information, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments to be Incorporated:

1. Application to Operate/Construct Air Pollution Sources, DER Form 17-202(1), received June 5, 1989.
2. Mr. J. Harry Kerns letter dated June 30, 1989.
3. Mr. C. H. Fancy's letter dated July 3, 1989.
4. Mr. Tom T. John's letter received April 6, 1990.
5. Mr. Tom T. John's letter with enclosures received April 24, 1990 (confidential).
6. Mr. William W. Deane's letter with enclosures received May 4, 1990.

PERMITTEE:
Chris Craft Boats

Permit Number: AC 41-165851
Expiration Date: July 31, 1992

Attachments Cont'd:

7. Mr. C. H. Fancy's letter dated May 23, 1990.
8. Mr. Tom T. John's letter with enclosures received August 20, 1990 (modeling output confidential).
9. Mr. C. H. Fancy's letter dated September 18, 1990.
10. Mr. T. P. Robinson's letter with enclosures received March 19, 1991.
11. Technical Evaluation and Preliminary Determination dated May 21, 1991.

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and

PERMITTEE:
Chris Craft Boats

Permit Number: AC 41-165851
Expiration Date: July 31, 1992

GENERAL CONDITIONS:

Department rules, unless specifically authorized by an order from the Department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

- a. Have access to and copy any records that must be kept under the conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and,
- c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- a. a description of and cause of non-compliance; and,
- b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

PERMITTEE:
Chris Craft Boats

Permit Number: AC 41-165851
Expiration Date: July 31, 1992

GENERAL CONDITIONS:

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-30.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. The permittee shall comply with the following:

a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and, records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

PERMITTEE:
Chris Craft Boats

Permit Number: AC 41-165851
Expiration Date: July 31, 1992

GENERAL CONDITIONS:

c. Records of monitoring information shall include:

- the date, exact place, and time of sampling or measurements;
- the person responsible for performing the sampling or measurements;
- the dates analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and,
- the results of such analyses.

14. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

SPECIFIC CONDITIONS:

1. The operation of this facility shall be in accordance with the capacities and specifications stated in the application and supplementary information.

2. The facility is permitted to operate 15 hours/day, 5 days/week, and 52 weeks/year, for a total of 3,900 hours/year.

3. Volatile organic compounds/organic solvents (VOC/OS) emissions shall be verifiable on a monthly basis and shall not exceed the following:

VOC/OS	Allowable Emission Limit	
o Acetone	39.4 lbs/hr,	76.8 TPY
o Styrene	69.9 lbs/hr,	137.5 TPY
o Methyl Methacrylate	2.1 lbs/hr,	4.1 TPY
o Trichlorofluoro Methane	4.0 lbs/hr,	7.8 TPY
o Dichlorodifluoro Methane	0.009 lbs/hr,	0.018 TPY
o Toluene	2.5 lbs/hr,	4.9 TPY
o Hexane	2.5 lbs/hr	4.9 TPY
	Total:	236.0 TPY

4. Compliance shall be demonstrated by applying a material balance scheme, which is to compare the beginning inventory, recycled and disposed-of (shipped-out) material, and ending inventory. An annual operating report shall be submitted to the Department's Southwest District office reporting the actual annual VOC/OS emissions by March 1 of each calendar year.

PERMITTEE:
Chris Craft Boats

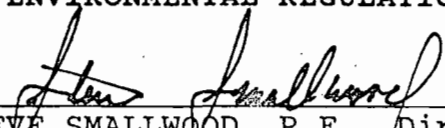
Permit Number: AC 41-165851
Expiration Date: July 31, 1992

SPECIFIC CONDITIONS:

5. In accordance with F.A.C. Rule 17-2.620(1), no person shall store, pump, handle, process, load, unload or use in any process or installation VOC or OS without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department. All vats, containers, etc., that are used for temporary and permanent storage of VOC/OS, shall be covered when not in use.
6. Objectionable odors will not be allowed off plant property in accordance with F.A.C. Rule 17-2.620(2).
7. Any change in the method of operation pursuant to F.A.C. Rule 17-2.100, Definitions-Modification, requires an application and appropriate processing fee to be submitted to the Department's Bureau of Air Regulation.
8. The facility's operation is subject to all applicable provisions of F.A.C. Chapters 17-2 and 17-4 and 40 CFR (July, 1990 version).
9. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Department's Bureau of Air Regulation prior to 60 days before the expiration date of the permit (F.A.C. Rule 17-4.090).
10. An application for an operation permit must be submitted to the Department's Southwest District office at least 90 days prior to the expiration date of this construction permit. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed while noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rules 17-4.055 and 17-4.220).

Issued this 18th day
of July, 1991

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION


STEVE SMALLWOOD, P.E., Director
Division of Air Resources
Management



Florida Department of Environmental Regulation

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

Lawton Chiles, Governor

Carol M. Browner, Secretary

May 21, 1991

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. T. P. Robinson
V.P. and General Manager
Chris Craft Boats
8161 Old Bradenton Road
Post Office Box 25022
Bradenton, Florida 34206

Dear Mr. Robinson:

Attached is one copy of the Technical Evaluation and Preliminary Determination and proposed after-the-fact permit for Chris Craft Boats's fiberglass boat manufacturing facility, located at 8161 Old Bradenton Road, Tallevast, Manatee County, Florida.

Please submit any written comments you wish to have considered concerning the Department's proposed action to Mr. Barry Andrews of the Bureau of Air Regulation.

Sincerely,

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

CHF/BM/bm

Attachments

c: B. Thomas, SWD
J. Harper, EPA
T. T. John, P.E., TTJE, Inc.
R. Evangelisti, P.E., OMC
R. Baum, Manatee Co.
B. Mitchell
C. Holladay

BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of
Application for Permit by:

Chris Craft Boats
P. O. Box 25022
Bradenton, Florida 34206

DER File No. AC 41-165851

INTENT TO ISSUE

The Department of Environmental Regulation hereby gives notice of its intent to issue an after-the-fact air construction permit (copy attached) for the proposed project as detailed in the application specified above. The Department is issuing this Intent to Issue for the reasons stated in the attached Technical Evaluation and Preliminary Determination.

The applicant, Chris Craft Boats, applied on June 2, 1989, to the Department of Environmental Regulation (DER) for an after-the-fact permit for the fiberglass operations at their facility. The proposed project will occur at the applicant's facility located at 8161 Old Bradenton Road, Tallevast, Manatee 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 an air construction permit is required for the proposed work.

Pursuant to Section 403.815, F.S. and DER Rule 17-103.150, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Notice of Intent to Issue Permit. The notice shall be published one time only within 30 days, in the legal ad section of a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. The applicant shall provide proof of publication to the Department, at the address specified within seven days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit.

The Department will issue the permit with the attached conditions unless a petition for an administrative proceeding (hearing) is filed pursuant to the provisions of Section 120.57, F.S.

A person whose substantial interests are affected by the Department's proposed permitting decision 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 intent. Petitions filed by other persons must be filed within 14 days of publication of the public notice or within 14 days of receipt of this intent, whichever first occurs. 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 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 publication 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.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

Barry J. Anderson

for

C. H. Fancy, P.E.

Chief

Bureau of Air Regulation

Copies furnished to:

B. Thomas, SWD

T. T. John, P.E., TTJE, Inc.

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF INTENT TO ISSUE and all copies were mailed before the close of business on 5-22-91.

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

Keri J. Ober
Clerk

5/22/91
Date

State of Florida
Department of Environmental Regulation
Notice of Intent to Issue

The Department of Environmental Regulation hereby gives notice of its intent to issue an after-the-fact construction permit to Chris Craft Boats, Post Office Box 25022, Bradenton, Florida 34206, for a fiberglass boat manufacturing facility. The proposed project will occur at the applicant's facility located at 8161 Old Bradenton Road, Tallevast, Manatee County, Florida. A determination of Best Available Control Technology (BACT) was not required. The Department is issuing this Intent to Issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

A person whose substantial interests are affected by the Department's proposed permitting decision 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, within fourteen (14) days of publication 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 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 publication of this notice in the Office of 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.

The application is available for public inspection during business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Department of Environmental Regulation
Bureau of Air Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Department of Environmental Regulation
Southwest District
4520 Oak Fair Boulevard
Tampa, Florida 33610-7347

Any person may send written comments on the proposed action to Mr. Barry Andrews at the Department's Tallahassee address. All comments mailed within 14 days of the publication of this notice will be considered in the Department's final determination.

Technical Evaluation
and
Preliminary Determination

Chris Craft Boats
Manatee County
Tallevast, Florida

Construction Permit Number
AC 41-165851

Department of Environmental Regulation
Division of Air Resources Management
Bureau of Air Regulation

May 21, 1991

I. Application

A. Applicant and Address

Chris Craft Boats
P. O. Box 25022
Bradenton, Florida 34206

B. Project and Location

The applicant has applied for an after-the-fact construction permit for a fiberglass boat manufacturing facility with no associated controls other than building exhaust fans. The facility is located at 8161 Old Bradenton Road in Tallevast, Manatee County, Florida.

The UTM coordinates are Zone 17, 347.215 km East and 3030.633 km North.

C. Source Industrial and Classification Codes

- o 3732: Boat Manufacturing Plant
- o 3-08-007-20: General Fiberglass Resin Products
Tons Coating Applied

II. Rule Applicability

The proposed project is subject to review in accordance with Chapter 403, Florida Statutes, and Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4.

The application package was deemed complete on March 19, 1991.

The facility is located in an area designated attainment for all regulated pollutants pursuant to Part IV, F.A.C. Chapter 17-2.

The facility emits VOC/OS (volatile organic compounds/organic solvents) in accordance with F.A.C. Rule 17-2.100, Definitions.

The projected potential pollutant emissions are 236.0 TPY VOC and 15.2 TPY PM. Since the facility is not on the list of Table 500-1, F.A.C. Chapter 17-2, the facility would be classified as minor in regard to PSD (Prevention of Significant Deterioration). Therefore, the potential pollutant emissions will be reviewed in accordance with F.A.C. Rule 17-2.520, Sources Not Subject to PSD or Nonattainment Requirements.

The facility is subject to the applicable standards of F.A.C. Rules 17-2.620: General Pollutant Emission Limiting Standards; 17-2.240: Circumvention; 17-2.250: Excess Emissions; 17-2.700: Stationary Point Source Emission Test Procedures; and, 17-4.130: Plant Operations-Problems.

III. Summary of Emissions and Air Quality Analysis

A. Emission Limitations

The pollutants that are regulated from the facility are VOC/OS. The following table will display the applicable emission standards/limitations:

Table 1

Source	Pollutant	Emission	Limiting Standard/Limit
Boat Assembly Line			
Fiberglassing Operation			
o Acetone	VOC	39.4 lbs/hr,	76.8 TPY
o Styrene	VOC	69.9 lbs/hr,	137.5 TPY
o Methyl Methacrylate	VOC	2.1 lbs/hr,	4.1 TPY
o Trichlorofluoro Methane	VOC	4.0 lbs/hr,	7.8 TPY
o Dichlorodifluoro Methane	VOC	0.009 lbs/hr,	0.018 TPY
o Toluene	VOC	2.5 lbs/hr,	4.9 TPY
o Hexane	VOC	2.5 lbs/hr	4.9 TPY
		Total:	236.0 TPY

Note: Annual emissions are based on 3900 hrs/yr operation (i.e., 15 hrs/day, 5 days/wk & 52 wks/yr).

B. Air Quality Analysis

The project has been evaluated in accordance with the procedures contained in the Department's Air Toxics Permitting Strategy (draft). The maximum hourly emissions of potential air toxics were modeled to determine the maximum predicted ambient concentrations for comparison to the conservative guideline no threat levels contained in the air toxics permitting strategy. The pollutants evaluated were styrene, acetone, trichlorofluoromethane, dichlorofluoromethane, methyl methacrylate, toluene, and hexane. Based on the highest ratio of the average air emission concentration of each pollutant to the acceptable exposure limit (Permissible Exposure Limit or PEL) of each pollutant, styrene was the principal VOC air toxic of interest. Modeling was then performed directly for styrene emissions. The maximum predicted concentrations for other pollutants were based on the ratio of their projected emissions to those of styrene. Total facility wide emissions of styrene were projected to be 8.89 grams/second or 69.9 lbs/hr. Since facility emissions may occur for up to 15 hours per day, both 8-hour average and 24-hour average maximum predicted styrene concentrations were generated by the modeling to be compared to the 8-hour and 24-hour no threat levels.

The applicant used the EPA and Department-approved Industrial Source Complex Short-Term (ISCST) model with one year of meteorological data in its modeling analysis (1986 Tampa National Weather Service data). The facility was modeled as a volume source plus five stack sources. Direction specific downwash parameters were used because the stacks were less than good engineering practice (GEP) stack heights. Modeling was performed using polar receptors along 36 radials spaced at 10 degree increments at distances of 75m, 100m, 125m, 150m and 200m from the facility center. Additional discrete receptors were placed along the northern and southern property boundaries at 20m intervals and along the western boundary at 20-40m intervals. Since only one year of data were used in this analysis, the Department compared the highest predicted concentrations to the no threat levels for each pollutant.

The modeling results are given in the table below and show that maximum predicted concentrations for each pollutant are less than the appropriate no threat levels except for the case of the maximum predicted 24-hour styrene concentration. The styrene concentration is within 1.4% of the guideline no threat level and represents a lowered predicted impact due to the applicant's commitment to increase the exhaust flow rate of the roof fans to 60,000 acfm in order to improve dispersion.

<u>Pollutant</u>	<u>Maximum Predicted Concentration ($\mu\text{g}/\text{m}^3$)</u>			<u>No-Threat Levels ($\mu\text{g}/\text{m}^3$)</u>		
	8-hr	24-hr	Annual	8-hr	24-hr	Annual
Styrene	1131	523	-	2150	516	-
Acetone	592	274	-	35600	8544	-
Methyl Methacrylate	33	15	-	4100	984	-
Trichlorofluoro Methane	64	29	<29	100000	24000	300
Dichlorodifluoro Methane	0.14	0.07	-	400	96	-
Toluene	41	19	<19	3750	900	300
Hexane	41	19	-	1800	430	-

IV. Conclusion

Based on the information provided by Chris Craft Boats, the Department has reasonable assurance that the after-the-fact permitting action of the fiberglass boat manufacturing facility, as described in this evaluation, and subject to the conditions proposed herein, will not cause or contribute to a violation of any air quality standard, PSD increment, or any other technical provision of Chapter 17-2 of the Florida Administrative Code.

Barry J. Anderson
 # 36024
 5-21-91



Florida Department of Environmental Regulation

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

Lawton Chiles, Governor

Carol M. Browner, Secretary

PERMITTEE:
Chris Craft Boats
Post Office Box 25022
Bradenton, Florida 34206

Permit Number: AC 41-165851
Expiration Date: July 31, 1992
County: Manatee
Latitude/Longitude: 27°23'31"N
82°32'43"W

Project: Fiberglass Boat
Manufacturing: Fiberglassing
Application Operation

This after-the-fact permit is issued under the provisions of Chapter 403, Florida Statutes, Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4, and 40 CFR (July, 1990 version). The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawings, plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the after-the-fact permitting of a facility that produces fiberglass boats. The existing exhaust system will be upgraded to 60,000 acfm. The facility is located at 8161 Old Bradenton Road in Tallevast, Manatee County, Florida. The UTM coordinates are Zone 17, 347.215 km East and 3030.633 km North.

The SIC is: 3732 - Boat Manufacturing Plant
The SCC is: 3-08-007-20 General Fiberglass Resin Products
Tons Coating Applied

The source shall be in accordance with the permit application, plans, documents, supplementary information, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments to be Incorporated:

1. Application to Operate/Construct Air Pollution Sources, DER Form 17-202(1), received June 5, 1989.
2. Mr. J. Harry Kerns letter dated June 30, 1989.
3. Mr. C. H. Fancy's letter dated July 3, 1989.
4. Mr. Tom T. John's letter received April 6, 1990.
5. Mr. Tom T. John's letter with enclosures received April 24, 1990 (confidential).
6. Mr. William W. Deane's letter with enclosures received May 4, 1990.

PERMITTEE:
Chris Craft Boats

Permit Number: AC 41-165851
Expiration Date: July 31, 1992

Attachments Cont'd:

7. Mr. C. H. Fancy's letter dated May 23, 1990.
8. Mr. Tom T. John's letter with enclosures received August 20, 1990 (modeling output confidential).
9. Mr. C. H. Fancy's letter dated September 18, 1990.
10. Mr. T. P. Robinson's letter with enclosures received March 19, 1991.
11. Technical Evaluation and Preliminary Determination dated May 21, 1991.

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and

PERMITTEE:
Chris Craft Boats

Permit Number: AC 41-165851
Expiration Date: July 31, 1992

GENERAL CONDITIONS:

Department rules, unless specifically authorized by an order from the Department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

- a. Have access to and copy any records that must be kept under the conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and,
- c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- a. a description of and cause of non-compliance; and,
- b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

PERMITTEE:
Chris Craft Boats

Permit Number: AC 41-165851
Expiration Date: July 31, 1992

GENERAL CONDITIONS:

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-30.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. The permittee shall comply with the following:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and, records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

PERMITTEE:
Chris Craft Boats

Permit Number: AC 41-165851
Expiration Date: July 31, 1992

GENERAL CONDITIONS:

c. Records of monitoring information shall include:

- the date, exact place, and time of sampling or measurements;
- the person responsible for performing the sampling or measurements;
- the dates analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and,
- the results of such analyses.

14. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

SPECIFIC CONDITIONS:

1. The operation of this facility shall be in accordance with the capacities and specifications stated in the application and supplementary information.

2. The facility is permitted to operate 15 hours/day, 5 days/week, and 52 weeks/year, for a total of 3,900 hours/year.

3. Volatile organic compounds/organic solvents (VOC/OS) emissions shall be verifiable on a monthly basis and shall not exceed the following:

VOC/OS	Allowable Emission Limit	
o Acetone	39.4 lbs/hr,	76.8 TPY
o Styrene	69.9 lbs/hr,	137.5 TPY
o Methyl Methacrylate	2.1 lbs/hr,	4.1 TPY
o Trichlorofluoro Methane	4.0 lbs/hr,	7.8 TPY
o Dichlorodifluoro Methane	0.009 lbs/hr,	0.018 TPY
o Toluene	2.5 lbs/hr,	4.9 TPY
o Hexane	2.5 lbs/hr	4.9 TPY
	Total:	236.0 TPY

4. Compliance shall be demonstrated by applying a material balance scheme, which is to compare the beginning inventory, recycled and disposed-of (shipped-out) material, and ending inventory. An annual operating report shall be submitted to the Department's Southwest District office reporting the actual annual VOC/OS emissions by March 1 of each calendar year.

PERMITTEE:
Chris Craft Boats

Permit Number: AC 41-165851
Expiration Date: July 31, 1992

SPECIFIC CONDITIONS:

5. In accordance with F.A.C. Rule 17-2.620(1), no person shall store, pump, handle, process, load, unload or use in any process or installation VOC or OS without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department. All vats, containers, etc., that are used for temporary and permanent storage of VOC/OS, shall be covered when not in use.

6. Objectionable odors will not be allowed off plant property in accordance with F.A.C. Rule 17-2.620(2).

7. Any change in the method of operation pursuant to F.A.C. Rule 17-2.100, Definitions-Modification, requires an application and appropriate processing fee to be submitted to the Department's Bureau of Air Regulation.

8. The facility's operation is subject to all applicable provisions of F.A.C. Chapters 17-2 and 17-4 and 40 CFR (July, 1990 version).

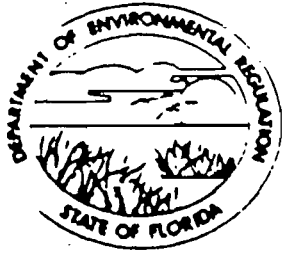
9. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Department's Bureau of Air Regulation prior to 60 days before the expiration date of the permit (F.A.C. Rule 17-4.090).

10. An application for an operation permit must be submitted to the Department's Southwest District office at least 90 days prior to the expiration date of this construction permit. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed while noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rules 17-4.055 and 17-4.220).

Issued this _____ day
of _____, 1991

**STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION**

STEVE SMALLWOOD, P.E., Director
Division of Air Resources
Management



AC41-165851

\$2,500 pd.
6-5-89

Receipt #117625

Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347 • 813-623-5561

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary
Richard Garrity, Deputy Assistant Secretary

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Fugative Air Emission (VOC) [] New¹ [X] Existing¹

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

COMPANY NAME: OMCCC Incorporated dba Chris Craft Boats COUNTY: Manatee

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) multiple building vents

SOURCE LOCATION: Street Facility 18, 7110 21st Street E. City Sarasota

UTM: East 347848 North 3033291

Latitude ° ' "N Longitude ° ' "W

APPLICANT NAME AND TITLE: T.P. Robinson, Vice President/General Manager

APPLICANT ADDRESS: Post Office Box 25022 Bradenton, FL 34206

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

OMCCC Incorporated dba
Chris Craft Boats

I am the undersigned owner or authorized representative* of Chris Craft Boats

I certify that the statements made in this application for an after-the-fact 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: T.P. Robinson

T. P. Robinson, Vice President/General Manager
Name and Title (Please Type)

Date: 5-31-89 Telephone No. (813) 747-4140

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

¹ 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 Tom T. John

Tom T. John, P.E.
Name (Please Type)

Stone & Webster Engineering Corporation
Company Name (Please Type)
10002 Princess Palm Avenue, Suite 200
Tampa, Florida 33619
Mailing Address (Please Type)

Florida Registration No. 33157 Date: 31 May 1989 Telephone No. (813) 622-7676

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.

The facility is a fiberglass boat manufacturing plant which processes glass reinforced polyester resin. The manufacturing process also includes the use of other volatile organic chemicals such as acetone, methylethyl ketone peroxide, gelcoat resin coating, iron and other paint, adhesive, and polyester resin.

B. Schedule of project covered in this application (Construction Permit Application Only)
Start of Construction N/A Completion of Construction N/A

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



E. Requested permitted equipment operating time: hrs/day 8 ; days/wk 5 ; wks/yr 52 ;
 if power plant, hrs/yr N/A ; if seasonal, describe: Production varies somewhat
throughout the year, but not necessarily in a seasonal fashion. To ensure compliance
with the to-be-permitted values, the applicant proposes to maintain a monthly record
of the usages of those chemicals emitting pollutants under this permit. See Attachment 3.

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? No
 - b. If yes, has "Lowest Achievable Emission Rate" been applied? N/A
 - c. If yes, list non-attainment pollutants. _____
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? _____
 - 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:

See attachment No. 3

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		

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

1. Total Process Input Rate (lbs/hr): _____
2. Product Weight (lbs/hr): _____

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

See attachment No. 4

Name of Contaminant	Emission ¹		Allowed ² 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	

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).

D. Control Devices: (See Section V, Item 4) N/A

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 N/A

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

*Units: Natural Gas--MMCF/hr; Fuel Oil--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. N/A

Annual Average _____ Maximum _____

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

Acetone typically is distilled and recycled; waste acetone, other liquids and solids
are collected and disposed of in the appropriate manner.

(See Attachment 5)

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

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 (Plastic)	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 (lb/hr)							

Description of Waste _____

Total Weight Incinerated (lb/hr) _____ Design Capacity (lb/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) _____

N/A

Brief description of operating characteristics of control devices: _____

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

All effluents are disposed of in accordance with appropriate regulations.

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

SECTION VI: 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:

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:

¹Explain method of determining efficiency.

²Energy 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 N/A

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).

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 ₂	_____ 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.

ATTACHMENT 1
FACILITY LOCATION

34205

34207

SAMOSET

ONECO

34203

3424

- 1 NEBRASKA ST
- 2 MASS ST
- 3 CORN ST
- 4 CALIF ST
- 5 OAKDALE ST
- 6 WASH ST
- 7 ORSON ST
- 8 TEXAS ST
- 9 KANSAS ST
- 10 NEW JERSEY ST
- 11 OHIO AV
- 12 INDIANA AV
- 13 MINN AV
- 14 ILLINOIS AV
- 15 MICHIGAN AV
- 16 WISCONSIN AV
- 17 PENN AV
- 18 NEW YORK AV
- 19 TARPON LA
- 20 MARLIN LA
- 21 S BAYOU LA
- 22 S BEACH DR
- 23 W BAYOU LA
- 24 PARR LA

**OMCC
CHRIS CRAFT BOAT
FACILITY LOCATION**

**PLANT
18**

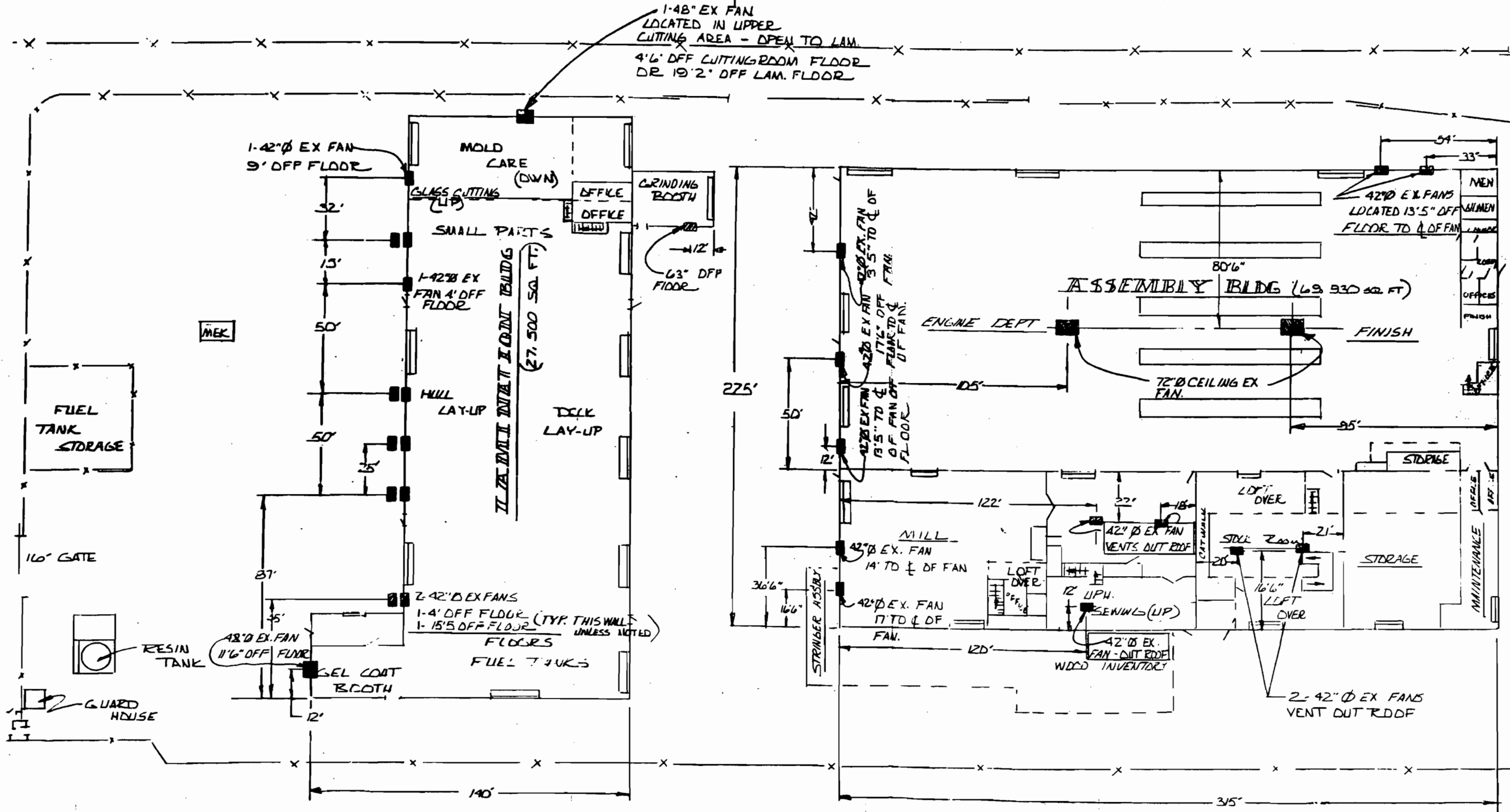
**DEVELOPMENT
CENTER**

TALLEVAST

MANATEE COUNTY
SARASOTA COUNTY

ATTACHMENT 2
FACILITY LAYOUT

- - 42" Ø EX. FAN = 13,600 CFM
- - 72" Ø EX. FAN = 67,200 CFM
- - 48" Ø EX. FAN = 18,400 CFM
- ⊞ - 30" Ø EX. FAN = 7,550 CFM



TOTAL CFM OF EXHAUST IN LAMINATION AREA

231,550 CFM

TOTAL CFM OF EXHAUST IN ASSEMBLY BLDG.

321,600 CFM

ATTACHMENT 3
MATERIALS USAGE

Attachment 3
 Section III: A
 Raw Material and Chemicals Used
 Based on Current Usage
 CHRIS CRAFT BOATS, PLANT 18

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	%Wt		
Acetone ¹	VOC	100	79	See Attachment 2
Styrene Monomer	VOC	100	4.8	"
Methylethyl Ketone Peroxide	VOC	100	25.64	"
Gelcoat	VOC	30	178.42	"
Styrene Polyester Resin	VOC	30-40	1531.01	"
Autofroth A	VOC-exempt	46-48	4.63	"
Autofroth B	VOC-exempt	20-25	75.29	"
Spray Adhesive	VOC	90	12.47	"

¹ 30% (average) of acetone is collected and sent offsite for recovery; 70% is volatilized.

Attachment 3
Section III: A
Raw Material and Chemicals Used
Based on Requested Usage
CHRIS CRAFT BOATS, PLANT 18

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	%Wt		
Acetone ¹	VOC	100	98.75	See Attachment 2
Styrene Monomer	VOC	100	6	"
Methylethyl Ketone Peroxide	VOC	100	32.05	"
Gelcoat	VOC	30	223.03	"
Styrene Polyester Resin	VOC	30-40	1913.76	"
Autofroth A	VOC-exempt	46-48	5.79	"
Autofroth B	VOC-exempt	20-25	94.11	"
Spray Adhesive	VOC	90	15.59	"

¹ 30% (average) of acetone is collected and sent offsite for recovery; 70% is volatilized.

Current annual and hourly emissions estimates for this application were developed from monthly and longer-term material usage information. The facility currently operates on an eight hour per day, five day per week cycle. Due to production fluctuations, occasional ten hour days or six day weeks are noted. Not all phases of the boat building result in VOC emissions, but the current operation is well represented by the average values developed. Market projections anticipate a modest increase in demand, which will result in operating hours and chemical usages (and corresponding emissions) above the current levels. The applicant therefore requests permitting at these higher levels (see Attachments 3 and 4, "Based on Requested Usage"). To ensure that the facility will not exceed (requested) permitted values or the corresponding maximum yearly VOC emissions, the applicant proposes to maintain a monthly record and a year-to-date running total of the usage of chemicals having components which result in VOC emissions. These records will be made available for DER and EPA inspection upon request.

ATTACHMENT 4

CONTAMINANTS EMITTED

Attachment 4
Section III: C
Airborne Contaminants Emitted
Based On Current Usage
CHRIS CRAFT BOATS, PLANT 18

Name of Contaminant	Emission		Allowed Emission Rate per Rule 17-2	Allowable Emission lbs/hr	Potential Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
1. acetone	55.3	57.5	N/A	N/A			See attachment 2
2. styrene - resin ¹	59.7	62.1	N/A	N/A			"
gelcoat ²	18.73	19.5	N/A	N/A			"
monomer ³	1.15	1.2	N/A	N/A			"
3. methylethyl ketone peroxide ⁴	0	0	N/A	N/A			"
4. Autofroth A dichloro-difluoromethane ⁵	.014	.0146	N/A	N/A			"
isocyanate	0	0	N/A	N/A			"
5. Autofroth B trichloro-fluoromethane ⁶	6.02	6.26	N/A	N/A			"
6. methyl methacrylate ² (5% wt. in gelcoat)	3.12	3.25	N/A	N/A			"
7. spray adhesive							"
toluene	3.79	3.89	N/A	N/A			"
acetone	3.79	3.89	N/A	N/A			"
hexane	3.79	3.89	N/A	N/A			"

Attachment 4
Section III: C
Airborne Contaminants Emitted
Based On Requested Usage
CHRIS CRAFT BOATS, PLANT 18

Name of Contaminant	Emission		Allowed Emission Rate per Rule 17-2	Allowable Emission lbs/hr	Potential Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
1. acetone	69.1	71.9	N/A	N/A			See attachment 2
2. styrene - resin ¹	74.6	77.6	N/A	N/A			"
gelcoat ²	23.4	24.3	N/A	N/A			"
monomer ³	1.44	1.49	N/A	N/A			"
3. methylethyl ketone peroxide ⁴	0	0	N/A	N/A			"
4. Autofroth A dichloro-difluoromethane ⁵	.0175	.018	N/A	N/A			"
isocyanate	0	0	N/A	N/A			"
5. Autofroth B trichloro-fluoromethane ⁶	7.5	7.83	N/A	N/A			"
6. methyl methacrylate ² (5% wt. in gelcoat)	3.9	4.05	N/A	N/A			"
7. spray adhesive							"
toluene	4.74	4.93	N/A	N/A			"
acetone	4.74	4.93	N/A	N/A			"
hexane	4.74	4.93	N/A	N/A			"

Notes:

1. California Air Resources Board (CARB) value of 0.09 to 0.13; value of 0.13 used
2. CARB value of 0.26 to 0.35; value of 0.35 used
3. Styrene monomer is used as thinning agent for the resin and gelcoat
4. Chemical is totally consumed in the polymeric reaction and will not be an emission constituent
5. Bill Andrews, Olin Chemical; 1.16 - 3% (wt) freon emitted - VOC-exempt under 17-2.650(1)(d), F.A.C.
6. Bill Andrews, Olin Chemical; 5 - 8% (wt) freon emitted - VOC-exempt under 17-2.650(1)(d), F.A.C.
7. Methylene chloride is VOC-exempt under 17-2.650(1)(d), F.A.C.

Sample Calculations (Current Usage) - Styrene

1. Resin contribution

$$1531.01 \text{ lbs/hr} \times 0.4 \text{ lbs styrene/lb resin} \times .13 \text{ lb emitted/lb used} = 79.61 \text{ lbs/hr}$$

$$79.61 \text{ lbs/hr} \times 2080 \text{ hrs/yr} \times \text{ton}/2000 \text{ lbs} = 82.8 \text{ TPY}$$

2. Gelcoat contribution

$$178.42 \text{ lbs/hr} \times 0.3 \text{ lbs styrene/lb gelcoat} \times 0.35 \text{ lbs emitted/lb used} = 18.73 \text{ lbs/hr}$$

$$18.73 \text{ lbs/hr} \times 2080 \text{ hrs/yr} \times \text{ton}/2000 \text{ lbs} = 19.48 \text{ TPY}$$

3. Monomer contribution: assume 50% to resin dilution, 50% to gelcoat dilution

$$\text{resin: } 4.8 \text{ lbs/hr} \times 0.5 \times 0.13 \text{ lbs emitted/lb used} = 0.31 \text{ lbs/hr}$$

$$\text{gelcoat: } 4.8 \text{ lbs/hr} \times 0.5 \times 0.35 \text{ lbs emitted/lb used} = 0.84 \text{ lbs/hr}$$

Current Total Styrene Emissions:

$$(79.61 + 18.73 + 1.15) = 99.49 \text{ lb/hr or } 103.48 \text{ TPY}$$

Current Total Facility VOC emissions: 170.4 TPY

Requested Total Styrene Emissions: 80.18 lb/hr or 83.39 TPY

Requested Total Facility VOC Emissions: 202 TPY

ATTACHMENT 5

EXHAUST VENT DATA
AND
MODEL INPUT PARAMETERS

The lamination building detailed in Attachment 2, is the source of the VOC emissions. The building is 140 ft. by 234 ft. by 20 ft. high. Ventilation is achieved by a 48" (18,400 ACFM) exhaust fan on the north wall, 19 feet 2 inches above the floor, twelve 42" (15,600 ACFM) exhaust fans, and one 48" (18,400 ACFM) exhaust fan along the west wall, located as shown in Attachment 2. These fans are located typically at 4 feet and 15 feet above the floor, and provide sufficient air turnover to maintain the styrene concentration within the lamination building to below 50 ppm (average).

Due to the building exhaust configuration and the difficulty with assigning justifiable parameters, current air emission models that might be used for air toxics screening for styrene are inappropriate. The assumptions made in utilizing the models preclude any reasonable assurance being drawn from the results. Additionally, the facility has been in operation for some time and has had no nuisance odor complaints. Since styrene is detected by its characteristic odor at levels below the acceptable threshold, the applicant contends that no danger exists to the health and welfare of the general population. The applicant proposes that an after-the-fact construction permit be issued for a period of six months, during which time additional emissions information and permitting precedents will be gathered, and air emissions models will be reviewed for applicability. Prior to the expiration of the construction permit, the applicant proposes to present these findings to DER and to demonstrate in mutually acceptable terms that the "reasonable assurance" criteria will be met, and the facility will not present a danger to the health and welfare of the population.

ATTACHMENT 6

MATERIAL SAFETY DATA SHEETS

MATERIAL SAFETY DATA SHEET
DataLoqIX Formula Systems Inc.

03/16/90

SECTION I - PRODUCT IDENTIFICATION

Manufacturer: DELTA LABORATORIES INC. P.O. BOX 2258 CR 328 ZUBER, (NEAR OCALA) OCALA FL 32678	Information Phone: 904 629 8101 Emergency Phone: 904 629 8101
Product Class: CONTACT ADHESIVE Trade Name: SPRAY CONTACT ADHESIVE Product Code: 90C000208 C.A.S. Number:	Hazard Ratings: none -> extreme 0 ---> 4 Health - 2 Fire - 3 Reactivity - 0

SECTION II - HAZARDOUS INGREDIENTS

Ingredients	CAS #	Weight %	Exposure Limits	Vapor Pr. mm Hg
TOLUENE**	100-88-9	20-50	100. ppm	24.
ACETONE**	67-64-1	20-50	750. ppm	188.
HEXANE	110-54-9	20-50	50. ppm	140.

SECTION III - PHYSICAL DATA

Boiling Range: 131 - 232 Deg. F Evap. Rate: Faster than n-Butyl Acetate Volatiles volume: 90.7 % Appearance:	Vapor Density: Heavier than Air. Liquid Density: Lighter than Water. Wgt per gallon: 6.55 Pounds.
---	--

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammability Class: 1B **Flash Point:** -20 F tcc **LEL:** 1.

-EXTINGUISHING MEDIA:

THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CLASSIFIES BURNING LIQUIDS AS CLASS B FIRES. THEREFORE, ANY APPROVED CLASS B FIRE EXTINGUISHER OR EXTINGUISHING AGENT MAY BE USED FOR FIREFIGHTING PURPOSES. FOR EXAMPLE: DRY CHEMICAL, FOAM, CARBON DIOXIDE.

-SPECIAL FIREFIGHTING PROCEDURES:

FULL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED. WATER SPRAY MAY BE INEFFECTIVE. IF WATER IS USED, FOG NOZZLES ARE PREFERABLE. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILDUP AND POSSIBLE AUTOIGNITION OR EXPLOSION WHEN EXPOSED TO EXTREME HEAT.

-UNUSUAL FIRE & EXPLOSION HAZARDS:

*** EXTREMELY FLAMMABLE *** KEEP CONTAINERS TIGHTLY CLOSED. MATERIAL IS HIGHLY VOLATILE AND READILY GIVES OFF VAPORS WHICH MAY TRAVEL ALONG THE GROUND OR BE MOVED BY VENTILATION AND CAUSE FLASH FIRES OR BE IGNITED EXPLOSIVELY BY PILOT LIGHTS, OTHER FLAMES, SPARKS, HEATERS, SMOKING, ELECTRIC MOTORS, OR OTHER SOURCES OF IGNITION AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. DO NOT APPLY TO HOT SURFACES. NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY. DURING EMERGENCY CONDITIONS OVEREXPOSURE TO DECOMPOSITION MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT. OBTAIN MEDICAL ATTENTION.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA (cont.)

-UNUSUAL FIRE & EXPLOSION HAZARDS: (cont.)

SECTION V - HEALTH HAZARD DATA

-PERMISSIBLE EXPOSURE LEVEL:

**

ANY ITEM IN SECTION II MARKED WITH ** IS A TOXIC CHEMICAL SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF SARA TITLE III AND OF 40 CFR 372.

EXPOSURE LIMITS LISTED IN SECTION II ARE EXPRESSED AS TLV UNLESS NOTED HERE.

TOLUENE OSHA PEL=200ppm, TLV=100ppm ACGIH TWA

ACETONE OSHA PEL=750ppm, ACGIH TLV=750ppm TWA

HEXANE OSHA PEL=500ppm, TLV=50ppm ACGIH TWA

-EFFECTS OF OVEREXPOSURE:

--EYES-- CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, AND BLURRED VISION.

--SKIN--PROLONGED OR REPEATED CONTACT CAN CAUSE MODERATE IRRITATION, DEFATTING, AND DERMATITIS. REPEATED CONTACT MAY CAUSE SENSITIZATION.

--BREATHING--EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL AND RESPIRATORY IRRITATION, DIZZINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE, POSSIBLE UNCONSCIOUSNESS, AND EVEN ASPHYXIATION.

--SWALLOWING--CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND DIARRHEA. ASPIRATION OF MATERIAL INTO THE LUNGS CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL.

OVEREXPOSURE TO TOLUENE MAY CAUSE LIVER DAMAGE & KIDNEY DAMAGE, CENTRAL NERVOUS SYSTEM DEPRESSION (IN HIGH CONCENTRATIONS), AND BRAIN CELL DAMAGE FROM LONG TERM INHALATION OF VAPORS.

OVEREXPOSURE TO ACETONE MAY CAUSE EYE, SKIN, AND RESPIRATORY TRACT IRRITATION, WITH POSSIBLE EYE TISSUE INJURY IF NOT REMOVED PROMPTLY. INHALATION OF VAPORS MAY CAUSE HEADACHES, DIZZINESS, AND CENTRAL NERVOUS SYSTEM DEPRESSION.

OVEREXPOSURE TO HEXANE MAY CAUSE MODERATE SKIN & EYE IRRITATION, RESPIRATORY TRACT IRRITATION, AND CENTRAL NERVOUS SYSTEM DEPRESSION (IN HIGH VAPOR CONCENTRATIONS).

-FIRST AID:

--IF IN EYES--FLUSH WITH LARGE AMOUNTS OF WATER, LIFTING THE UPPER AND LOWER LIDS OCCASIONALLY, GET MEDICAL ATTENTION.

--IF ON SKIN--THOROUGHLY WASH EXPOSED AREA WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDRY BEFORE RE-USE.

--IF BREATHED--IF AFFECTED, REMOVE INDIVIDUAL TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. KEEP PERSON WARM, QUIET, AND GET MEDICAL ATTENTION.

--IF SWALLOWED--DO NOT INDUCE VOMITING. KEEP PERSON WARM, QUIET, AND GET MEDICAL ATTENTION. ASPIRATION OF MATERIAL INTO THE LUNGS DUE TO VOMITING CAN CAUSE PNEUMONITIS WHICH CAN BE FATAL.

SECTION VI - REACTIVITY DATA

STABILITY: Unstable Stable
HAZARDOUS POLYMERIZATION: May occur Will not occur

-INCOMPATIBILITY:

STRONG OXIDIZING AGENTS; SULFURIC ACID.
AMINES, ALKANOLAMINES, OXYGEN, HALOGENS, ALDEHYDES, AMMONIA, AND
CHLORINATED COMPOUNDS.

-CONDITIONS TO AVOID:

HIGH TEMPERATURE OR HEAT OR OPEN FLAMES.

-HAZARDOUS DECOMPOSITION PRODUCTS:

THERMAL DECOMPOSITION MAY PRODUCE CARBON MONOXIDE,
CARBON DIOXIDE, CHLORINE COMPOUNDS, AND TOXIC FUMES.

SECTION VII - SPILL OR LEAK PROCEDURES

-STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

REMOVE ALL SOURCES OF IGNITION (FLAMES, HOT SURFACES, PILOT
LIGHTS, AND ELECTRIC, STATIC, OR FRICTIONAL SPARKS). AVOID
BREATHING VAPORS. VENTILATE AREA. REMOVE WITH INERT ABSORBENT
AND NON-SPARKING TOOLS. PERSONS NOT WEARING PROTECTIVE EQUIP-
MENT SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN-UP HAS
BEEN COMPLETED.

-WASTE DISPOSAL METHOD:

DISPOSE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL LAW REGUL-
ATIONS. INCINERATE IN APPROVED FACILITY. DO NOT INCINERATE
CLOSED CONTAINERS.

SECTION VIII - SPECIAL PROTECTION INFORMATION:

-RESPIRATORY PROTECTION:

IF THE 'TLV' OF THE PRODUCT OR ANY COMPONENT IS EXCEEDED, A
NIOSH/MESA JOINTLY APPROVED SELF-CONTAINED BREATHING APPARATUS
WITH A FULL FACE PIECE OPERATED IN PRESSURE DEMAND OR OTHER
POSITIVE PRESSURE MODE IS ADVISED; HOWEVER, OSHA REGULATIONS
ALSO PERMIT OTHER NIOSH/MESA RESPIRATORS UNDER SPECIFIC CONDIT-
IONS. AREAS OF STORAGE AND USE SHOULD BE SURVEYED BY A QUALI-
FIED INDUSTRIAL HYGIENIST TO ASSURE ADEQUACY OF RESPIRATORY
PROTECTION, VENTILATION, AND OTHER PROTECTIVE EQUIPMENT.

-VENTILATION:

PROVIDE GENERAL DILUTION OR LOCAL EXHAUST VENTILATION IN VOLUME
AND PATTERN TO KEEP TLV OF ALL HAZARDOUS INGREDIENTS IN SECTION
II BELOW ACCEPTABLE LIMIT; LEL IN SECTION II BELOW STATED LIMIT.

-PROTECTIVE GLOVES:

REQUIRED FOR PROLONGED OR REPEATED CONTACT.

-EYE PROTECTION:

USE SAFETY EYEWEAR DESIGNED TO PROTECT AGAINST SPLASH OF LIQUID.

-OTHER PROTECTIVE EQUIPMENT:

WEAR IMPERVIOUS CLOTHING AND BOOTS TO PREVENT REPEATED OR
PROLONGED SKIN CONTACT.

SECTION IX - SPECIAL PRECAUTIONS

-PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

KEEP AWAY FROM HEAT, SPARKS, FIRE, AND ALL IGNITION SOURCES. DO NOT LEAVE CONTAINER OPEN. DO NOT STORE ABOVE 100 DEGREES F. STORE IN BUILDINGS DESIGNED AND PROTECTED FOR STORAGE OF NFPA CLASS I FLAMMABLE LIQUIDS. USE IN AREAS DESIGNED AND PROTECTED FOR USE OF CLASS I FLAMMABLE LIQUIDS.

-OTHER PRECAUTIONS:

USE ONLY WITH ADEQUATE VENTILATION. AVOID PROLONGED OR REPEATED BREATHING OF VAPOR. AVOID CONTACT WITH EYES OR SKIN. DO NOT TAKE INTERNALLY. CONTAINERS SHOULD BE GROUNDED WHEN POURING. AVOID FREE FALL OF LIQUID IN EXCESS OF A FEW INCHES. STORE, DISPENSE AND USE IN ACCORDANCE WITH NFPA STANDARDS FOR CLASS I FLAMMABLE LIQUIDS. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THIS DATA SHEET MUST BE OBSERVED. THE CONSUMER PRODUCT SAFETY COMMISSION HAS BANNED THIS PRODUCT FOR CONSUMER USE BECAUSE OF FLAMMABILITY HAZARDS. IT MAY NOT BE SUPPLIED TO CONSUMERS, AND MAY NOT BE PACKAGED IN CONTAINERS SUITABLE FOR CONSUMER OR HOUSEHOLD USE. *** FOR INDUSTRIAL USE ONLY. NOT FOR HOUSEHOLD USE. ***

NOTICE: REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

THE INFORMATION ACCUMULATED HEREIN IS BELIEVED TO BE ACCURATE, BUT IS NOT WARRANTED TO BE. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED THAT THE INFORMATION IS CURRENT, APPLICABLE AND SUITABLE FOR THEIR CIRCUMSTANCES.

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OCEANSM Network
EMERGENCY PHONE 1-800-OLIN-011

SAFETY DATA

FOAMCRAFT, INC.
P. O. BOX 15246
SARASOTA, FLA. 33579
813 - 366-9393

SECTION I - IDENTIFICATION

2-19-87 J. G. Galt

CHEMICAL NAME & SYNONYMS AUTOFROTH® A Side		LABEL 2	A 602 series
CHEMICAL FAMILY Isocyanate	FORMULA Proprietary mixture	TRADE NAME AUTOFROTH® P	
DESCRIPTION Dark liquid		CAS NO. Not assigned/mixture	

SECTION II - NORMAL HANDLING PROCEDURES

<p>PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE</p> <p>Avoid contact with eyes, skin or clothing. Do not take internally. Upon contact with skin or eyes, wash off with water. Avoid breathing mist or vapor. Store in a cool, dry, well-ventilated place away from all sources of ignition.</p>	
<p>PROTECTIVE EQUIPMENT</p> <p>EYES Goggles</p> <p>GLOVES Required</p> <p>OTHER Coveralls and boots</p>	<p>VENTILATION REQUIREMENTS</p> <p>Local exhaust as required to keep airborne concentrations below TLV.</p>

SECTION III - HAZARDOUS INGREDIENTS

BASIC MATERIAL	OSHA PEL	LD50	LC50	SIGNIFICANT EFFECTS
Polymeric Isocyanate wt% = 14-68-1 40-45%	0.02 ppm	No data	No data	Skin, eye and mucous membrane irritation
Halogenated phosphorus containing plasticizer	None established	No data	No data	No data
Fluorocarbon - wt% R-12 (6-8%) 1.6% = 3% low 2x4x6 1/8 verticle panels	1,000 ppm	No data	TCLO (human) 200,000 ppm/30 min	Eye effects, irritation

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT 365°F CDC METHOD	OSHA CLASSIFICATION Slightly combustible liquid	FLAMMABLE EXPLOSIVE LIMIT	LOWER ND	UPPER ND
EXTINGUISHING MEDIA Carbon dioxide, foam, dry chemical, water				
SPECIAL FIRE HAZARD & FIRE FIGHTING PROCEDURES Use NIOSH/MSHA approved positive pressure self-contained breathing apparatus when any material is involved in a fire.				

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE Isocyanate 0.02 ppm ceiling, fluorocarbon 1,000 ppm (ACGIH 1983)
SYMPTOMS OF OVER EXPOSURE Irritation to eyes, skin and mucous membranes, labored breathing.
EMERGENCY FIRST-AID PROCEDURES
SKIN Flush with water for 15 minutes, call a physician.
EYES Flush with water for 15 minutes, call a physician.
INGESTION Drink large quantities of water. Do not induce vomiting. Call a physician.

PRODUCT CODE 980337

CHEMICAL NAME AUTOFROTH® P

SECTION VI - TOXICOLOGY (PRODUCT)

<p>ACUTE ORAL LD 50 > 5 g/kg (rats) ACUTE DERMAL LD 50 > 2 g/kg ACUTE INHALATION LC 50 Not known</p>	<p>CARCINOGENICITY Not known to be carcinogenic MUTAGENICITY Not known to be mutagenic EYE IRRITATION Irritant PRIMARY SKIN IRRITATION Irritant</p>
<p>PRINCIPAL ROUTES OF ABSORPTION Inhalation, dermal</p>	
<p>EFFECTS OF ACUTE EXPOSURE Irritation to eyes, skin and mucous membrane. May cause allergic sensitization characterized by labored breathing.</p>	
<p>EFFECTS OF CHRONIC EXPOSURE May cause allergic sensitization of skin and respiratory tract.</p>	

SECTION VII - SPILL AND LEAKAGE PROCEDURES (CONTROL PROCEDURES)

<p>ACTION FOR MATERIAL RELEASE OR SPILL Wear NIOSH/MSHA approved self-contained breathing apparatus. Follow OSHA regulations for respirator use (See 29 CFR 1910.134). Wear goggles, coveralls, impervious gloves and boots. Apply absorbent material, such as sawdust, shovel up and place in an approved DOT container. Add an equal amount of neutralizing solution (90-95% water, 5-10% ammonia) to the container. Clean any remaining material with additional neutralizing solution and add this to the container. Isolate and do not seal for 24 hours. Ammonia vapors and heat may be generated until solution is neutralized. Wash all contaminated clothing before reuse. In the event of a large spill use the emergency telephone number shown on the front of this sheet.</p>
<p>TRANSPORTATION EMERGENCY, CONTACT CHEMTREC 800-424-9300</p>
<p>WASTE DISPOSAL METHOD Dispose of contaminated product, empty containers and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate Federal, State and local regulatory agencies to ascertain proper disposal procedures. D.O.T. Dichlorodifluoromethane, mixture, non-flammable gas, UN 1028 (for cargo tank transport)</p>

SECTION VIII - SHIPPING DATA

D.O.T. Compressed gas, N.O.S., non-flammable UN 1956 (for cylinders and portable tanks)

SECTION IX - REACTIVITY DATA

<p>STABLE <input checked="" type="checkbox"/> UNSTABLE <input type="checkbox"/> AT <input type="checkbox"/> C <input type="checkbox"/> F</p>	<p>HAZARDOUS POLYMERIZATION</p>	<p>MAY OCCUR <input checked="" type="checkbox"/> WILL NOT OCCUR <input type="checkbox"/></p>
<p>CONDITIONS TO AVOID Water and incompatible materials in a closed system. INCOMPATIBILITY (MATERIAL TO AVOID) Acids, bases and alcohols and hydrochloric acid. HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide, oxides of nitrogen, cyanides</p>		

SECTION X - PHYSICAL DATA

MELTING POINT No data	VAPOR PRESSURE No data	VOLATILES No data
BOILING POINT No data	SOLUBILITY IN WATER Reactive	EVAPORATION RATE No data
SPECIFIC GRAVITY(H2O=1) 1.25	PH No data	VAPOR DENSITY(AIR=1) No data

INFORMATION: FURNISHED TO 47841001 FURNISHED BY DATE JANUARY 27, 1986

ATTN: DEPT HANDLING MATL SAFETY DATA SHEETS
FOAM CRAFT INC
6235 S MCINTOSH RD
SARASOTA FL 33583

Department of Environmental Hygiene and Toxicology
(203) 789-5438

olin CORPORATION
120 Long Ridge Road, Stamford, Connecticut 06904
OCEANSM Network
ONE 1-800-OLIN-911

30-3449

SECTION I - IDENTIFICATION

CHEMICAL NAME & SYNONYMS AUTOFROTH [®] Component B		LABEL 6
CHEMICAL FAMILY Polyol resin	FORMULA Proprietary mixture	TRADE NAME AUTOFROTH [®]
DESCRIPTION AUTOFROTH [®] Component B		CAS NO. Not assigned/mixture

SECTION II - NORMAL HANDLING PROCEDURES

<p>PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE</p> <p>Do not get in eyes, on skin or on clothing. Do not take internally. Avoid breathing mist or vapor. Store in a cool, dry, well-ventilated place. Upon contact with skin or eyes, wash off with water.</p>	
<p>PROTECTIVE EQUIPMENT</p> <p>EYES Goggles</p> <p>GLOVES Not required</p> <p>OTHER Coveralls and boots</p>	<p>VENTILATION REQUIREMENTS</p> <p>Local mechanical exhaust ventilation recommended to minimize exposure and to keep concentrations of fluorocarbon below OSHA PEL.</p>

SECTION III - HAZARDOUS INGREDIENTS

BASIC MATERIAL	OSHA PEL	LD50	LC50	SIGNIFICANT EFFECTS
Fluorocarbon <i>R11 20-25</i> <i>R12 5-82</i>	1,000 ppm	No data	TCLD human 50,000 ppm/30 min	Eye effects, irritation
Amine catalyst <i>1.9 density</i> <i>3 1/2 mi froth</i>	None established	No data	No data	Irritation

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT 392°F COC METHOD	OSHA CLASSIFICATION Slightly combustible liquid	FLAMMABLE EXPLOSIVE LIMIT	LOWER ND	UPPER ND
EXTINGUISHING MEDIA CO2, foam, dry chemical, water				
SPECIAL FIRE HAZARD & FIRE FIGHTING PROCEDURES Use NIOSH/MSHA approved positive pressure self-contained breathing apparatus when any material is involved in a fire.				

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE None established
SYMPTOMS OF OVER EXPOSURE Eye and mucous membrane irritation, may cause cardiac arrhythmia
EMERGENCY FIRST-AID PROCEDURES
SKIN Flush with water. Washing any substance off skin is a good safety practice.
EYES Flush with water for 15 minutes, call a physician.
INGESTION Drink water to dilute.

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SECTION VI - TOXICOLOGY (PRODUCT)

ACUTE ORAL LD 50 >10 g/kg (rats) ACUTE DERMAL LD 50 > 2 g/kg ACUTE INHALATION LC 50 >200 mg/l for 1 hr	CARCINOGENICITY Not known to be carcinogenic MUTAGENICITY Not known to be mutagenic EYE IRRITATION Irritant PRIMARY SKIN IRRITATION Not an irritant
PRINCIPAL ROUTES OF ABSORPTION Inhalation, skin contact	
EFFECTS OF ACUTE EXPOSURE Eye and mucous membrane irritation, cardiac arrhythmia.	
EFFECTS OF CHRONIC EXPOSURE None expected at industrial use levels	

SECTION VII - SPILL AND LEAKAGE PROCEDURES (CONTROL PROCEDURES)

ACTION FOR MATERIAL RELEASE OR SPILL Wear NIOSH/MSHA approved self-contained breathing apparatus. Follow OSHA regulations for respirator use (see 29 CFR 1910.134). Wear goggles, coveralls, impervious gloves and boots. Wash all contaminated clothing before reuse. Add dry absorbent, shovel or sweep up. Place in an appropriate container and seal. In the event of a large spill, call the emergency telephone number shown on the front of this sheet.
TRANSPORTATION EMERGENCY, CONTACT CHEMTREC 800-424-9300
WASTE DISPOSAL METHOD Dispose of contaminated product, empty containers and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate Federal, State and local regulatory agencies to ascertain proper disposal procedures.

SECTION VIII - SHIPPING DATA

D.O.T.	Not regulated
--------	---------------

SECTION IX - REACTIVITY DATA

STABLE x UNSTABLE AT ___ C ___ F	HAZARDOUS POLYMERIZATION	MAY OCCUR WILL NOT OCCUR y
CONDITIONS TO AVOID Extreme heat INCOMPATIBILITY (MATERIAL TO AVOID) Strong oxidizers HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide, nitrogen oxides, aldehydes		

SECTION X - PHYSICAL DATA

MELTING POINT No data	VAPOR PRESSURE No data	VOLATILES No data
BOILING POINT No data	SOLUBILITY IN WATER No data	EVAPORATION RATE No data
SPECIFIC GRAVITY (H2O=1) 1.13-1.20	PH No data	VAPOR DENSITY (AIR=1) No data

INFORMATION: FURNISHED TO

47841001

FURNISHED BY DATE

JANUARY 27, 1986

ATTN: DEPT HANDLING MATL SAFETY DATA SHEETS
 FOAM CRAFT INC
 6235 S MCINTOSH RD
 SARASOTA FL 33583

Department of Environmental Hygiene and Toxicology
 (203) 789-5436

olin CORPORATION
 120 Long Ridge Road, Stamford, Connecticut 06904
 OCEANSM Network
 EMERGENCY PHONE 1-800-OLIN-0111

Helcoat - SECTION I - MANUFACTURERS INFORMATION

PRODUCT CODE IDENTITY: 942Y380 PRODUCT NAME: BRIGHT YELLOW
 NAME : COOK PAINT AND VARNISH COMPANY DATE OF MSDS: 10/20/87
 ADDRESS: P.O. BOX 419389 KANSAS CITY, MO 64141-6389 EMERGENCY TELEPHONE: 916-391-6000
 INFORMATION TELEPHONE: 816-391-6003

ATTN: SAFETY AND HEALTH OFFICER
 DONZI MARINE CORP
 PO BOX 987

CUSTOMER NUMBER: 533890
 DATE PRINTED: 12/14/89
 COMPLEX: 300

TAILEVAST FL 34270

SECTION II - HAZARDOUS INGREDIENTS

STYRENE MONOMER

CAS #: NOT ASSIGNED WT. %: 30.000 VAPOR PRESSURE: 4.5
 (MMHG/DEG F)

EXPOSURE LIMIT:
 ACGIH TLV/TWA: 50 PPM (SKIN) (215 MG/CU.M.)
 ACGIH TLV/STEL: 100 PPM (SKIN) (425 MG/CU.M.)
 OSHA PEL: 100 PPM (425 MG/CU.M.)
 OSHA PEL/CEILING: 200 PPM (850 MG/CU.M.)
 OTHER: OSHA: 600 PPM/5 MIN/3 HR PEAK

TALC (HYDROUS MAGNESIUM SILICATE)

CAS #: 014807-96-6 WT. %: 10.000 VAPOR PRESSURE: N/A
 (MMHG/DEG F)

EXPOSURE LIMIT:
 ACGIH TLV/TWA: 2 MG/M3 RESPIRABLE DUST
 OSHA PEL: 20 M PPCF

SILICA, AMORPHOUS

CAS #: 007631-86-9 WT. %: 5.000 VAPOR PRESSURE: N/A
 (MMHG/DEG F)

EXPOSURE LIMIT:
 ACGIH TLV/TWA: 10MG/CU.M. TOTAL DUST
 OSHA PEL: 20M PPCF AS DUST

METHYL METHACRYLATE

CAS #: 000080-62-6 WT. %: 5.000 VAPOR PRESSURE: 29.0
 (MMHG/DEG F)

EXPOSURE LIMIT:
 ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)
 OSHA PEL: 100 PPM (410 MG/CU.M.)

LEAD CHROMATE COMPOUND

CAS #: 001344-37-2 WT. %: LESS THAN 1 VAPOR PRESSURE: N/A
 (MMHG/DEG F)

EXPOSURE LIMIT:
 ACGIH TLV/TWA: 0.05 MG/CU.M.-CHROMIUM, 0.15 MG/CU.M.-LEAD
 OSHA PEL: 0.1 MG/CU.M.-CHROMATE (CEILING), 0.05 MG/CU.M.-LEAD

MAXIMUM VOC NOT CONSUMED DURING CURING IS 40 GRAM/LITER (OR 230 GRAMS/SQUARE METER OF SURFACE AREA OPEN TO AIR). MAXIMUM VOC OF UNCATALYZED RESINS AND GEL COATS IS 600 GRAMS/LITER.

THIS MATERIAL CONTAINS INGREDIENTS COVERED BY THE CALIFORNIA "SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986" (PROPOSITION 65).

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SECTION III - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE TO PRODUCT. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT: IRRITATION. SYMPTOMS ARE TEARING, REDNESS AND DISCOMFORT.

SKIN CONTACT: IRRITATION. CAN CAUSE DEFATTING OF SKIN WHICH MAY LEAD TO DERMATITIS.

INHALATION: IRRITATION TO NOSE AND THROAT. EXTENDED OR REPEATED EXPOSURE TO CONCENTRATIONS ABOVE THE RECOMMENDED EXPOSURE LIMITS MAY CAUSE BRAIN OR NERVOUS SYSTEM DEPRESSION, CAUSING DIZZINESS, HEADACHE OR NAUSEA AND IF CONTINUED INDEFINITELY, LOSS OF CONSCIOUSNESS, LIVER AND KIDNEY DAMAGE. OVEREXPOSURE MAY RESULT IN TOXIC LEVELS OF LEAD IN THE BODY.

REPORTS HAVE ASSOCIATED REPEATED OR PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE.

INGESTION: MAY CAUSE MOUTH, THROAT, ESOPHAGUS AND STOMACH IRRITATION. NAUSEA, VOMITING AND DIARRHEA. HARMFUL IF SWALLOWED. MAY RESULT IN TOXIC LEVELS OF LEAD IN THE BODY.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT: PREEXISTING EYE, SKIN, LIVER, KIDNEY AND RESPIRATORY DISORDERS.

EMERGENCY AND FIRST AID PROCEDURES:

IN CASE OF EYE CONTACT, FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION; FOR SKIN, WASH THOROUGHLY WITH SOAP AND WATER. IF AFFECTED BY INHALATION OF VAPORS OR SPRAY MIST, REMOVE TO FRESH AIR. IF SWALLOWED, GET MEDICAL ATTENTION IMMEDIATELY.

OTHER HEALTH HAZARDS:

THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS RECLASSIFIED STYRENE AS GROUP 2B "POSSIBLY CARCINOGENIC TO HUMANS". THIS NEW CLASSIFICATION IS NOT BASED ON NEW HEALTH DATA RELATING TO EITHER HUMANS OR ANIMALS, BUT ON A CHANGE IN THE IARC CLASSIFICATION SYSTEM. THE STYRENE INFORMATION AND RESEARCH CENTER DOES NOT AGREE WITH THE RECLASSIFICATION AND HAS PUBLISHED THE FOLLOWING STATEMENT. "RECENTLY PUBLISHED STUDIES TRACING 50,000 WORKERS EXPOSED TO HIGH OCCUPATIONAL LEVELS OF STYRENE OVER A PERIOD OF 45 YEARS SHOWED NO ASSOCIATION BETWEEN STYRENE AND CANCER, NO INCREASE IN CANCER AMONG STYRENE WORKERS (AS OPPOSED TO THE AVERAGE AMONG ALL WORKERS), AND NO INCREASE IN MORTALITY RELATED TO STYRENE."

LEAD CHROMATE IS A HEXAVALENT CHROMATE COMPOUND WHICH ARE LISTED BY THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) AS HUMAN CARCINOGENS (GROUP I) AND BY THE NATIONAL TOXICITY PROGRAM (NTP) AS HUMAN CARCINOGENS (CLASS A). EXPOSURE AT EXCESSIVE LEVELS TO SPRAY MISTS AND DUSTS FROM PRODUCTS CONTAINING LEAD CHROMATE MAY CREATE RISK OF RESPIRATORY CANCER. RISK OF CANCER DEPENDS ON DURATION AND LEVEL OF EXPOSURE. LEAD CHROMATE IS A HEXAVALENT CHROMIUM COMPOUND INCLUDED ON THE LIST OF CARCINOGENS PUBLISHED BY THE GOVERNOR OF CALIFORNIA UNDER THE CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986.

OVEREXPOSURE BY INHALATION OF MISTS AND DUSTS FROM PRODUCTS CONTAINING LEAD CAN CAUSE BIRTH DEFECTS AND DAMAGE TO KIDNEYS, BLOOD, REPRODUCTIVE SYSTEM AND NERVOUS SYSTEM. "SYMPTOMS OF OVEREXPOSURE TO LEAD INCLUDE A METALLIC TASTE, LOSS OF APPETITE, INDIGESTION, NAUSEA, VOMITING, CONSTIPATION, ABDOMINAL CRAMPS AND WEAKNESS. SEE OSHA LEAD STANDARD 29CFR 1910.1025 FOR FURTHER INFORMATION ON HARMFUL EFFECTS OF OVEREXPOSURE TO AIRBORNE LEAD." LEAD IS INCLUDED ON THE LIST OF CHEMICALS, KNOWN TO CAUSE REPRODUCTIVE TOXICITY, PUBLISHED BY THE GOVERNOR OF CALIFORNIA UNDER THE CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986.

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SECTION IV - PHYSICAL DATA

BOILING POINT, DEG. F. 212

VAPOR DENSITY IS HEAVIER THAN AIR

WEIGHT PER GALLON: 10.27

EVAPORATION RATE IS SLOWER THAN ETHER

PERCENT VOLATILE BY VOLUME: 45.861

SECTION V - FIRE AND EXPLOSION HAZARD DATA

OSHA FLAMMABILITY CLASSIFICATION: FLAMMABLE LIQUID CLASS IC

FLASH POINT SETA CLOSED CUP, DEG F: 82

DOT HAZARD CLASS: RED-LABEL, FLAMMABLE LIQUID

LEL: 1.10

EXTINGUISHING MEDIA: FOAM, CARBON DIOXIDE, DRY CHEMICAL, WATER FOG.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

IF POLYMERIZATION TAKES PLACE IN A CONTAINER, THERE IS POSSIBILITY OF VIOLENT RUPTURE OF THE CONTAINER. STYRENE VAPORS ARE UNINHIBITED AND MAY FORM POLYMERS IN VENTS OR FLAME ARRESTORS OF STORAGE TANKS RESULTING IN STOPPAGE OF VENTS. VAPORS MAY CAUSE FLASH FIRE. KEEP CONTAINERS TIGHTLY CLOSED AND ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND FLAME. NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY.

SPECIAL FIRE FIGHTING PROCEDURES:

FULL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED. WATER SPRAY MAY BE INEFFECTIVE. IF WATER IS USED, FOG NOZZLES ARE PREFERABLE. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE AUTO-IGNITION OR EXPLOSION WHEN EXPOSED TO EXTREME HEAT

SECTION VI - REACTIVITY DATA

STABILITY: STABLE HAZARDOUS POLYMERIZATION: MAY OCCUR.

CONDITIONS TO AVOID:

ELEVATED TEMPERATURES. IMPROPER ADDITION OF PROMOTER AND/OR CATALYST. AVOID DIRECT CONTACT OF MEKP CATALYST WITH ACCELERATOR. IF AN ACCELERATOR SUCH AS COBALT DRIER IS TO BE ADDED, MIX THIS ACCELERATOR WITH BASE MATERIAL BEFORE ADDING CATALYST.

INCOMPATIBILITY (MATERIALS TO AVOID):

OXIDIZERS, PEROXIDES, STRONG ACIDS, ALUMINUM CHLORIDE AND VINYL POLYMERS.

HAZARDOUS DECOMPOSITION PRODUCTS:

THERMAL DECOMPOSITION OR COMBUSTION CAN PRODUCE FUMES CONTAINING ORGANIC ACIDS, CARBON DIOXIDE AND CARBON MONOXIDE.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

REMOVE ALL SOURCES OF IGNITION (FLAMES, HOT SURFACES, AND ELECTRICAL, STATIC, OR FRICTIONAL SPARKS). AVOID BREATHING VAPORS. VENTILATE AREA. CONTAIN AND REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS.

WASTE DISPOSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS. INCINERATE IN APPROVED FACILITY.

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SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

DO NOT BREATHE OR INGEST VAPORS, SPRAY MIST OR DUST WHILE APPLYING, SANDING, GRINDING, OR SAWING CURED PRODUCT. WEAR AN APPROPRIATE, PROPERLY FITTED RESPIRATOR (NIOSHI/MSHA APPROVED) DURING APPLICATION AND OTHER USE OF THIS PRODUCT UNTIL ALL VAPORS, MISTS, AND DUSTS ARE EXHAUSTED, UNLESS AIR MONITORING DEMONSTRATES VAPOR AND MIST AND DUST LEVELS ARE BELOW APPLICABLE LIMITS. FOLLOW RESPIRATOR MANUFACTURER'S DIRECTIONS FOR RESPIRATOR USE. OBSERVE OSHA STANDARD 29CFR 1910.134. IF MONITORING RESULTS SHOW PEL FOR LEAD IS EXCEEDED, REFER TO OSHA STANDARD 29CFR 1910.1025.

VENTILATION:

PROVIDE GENERAL CLEAN AIR DILUTION OR LOCAL EXHAUST VENTILATION IN VOLUME AND PATTERN TO KEEP THE AIR CONTAMINANT CONCENTRATION BELOW THE LOWER EXPLOSION LIMIT AND BELOW CURRENT APPLICABLE EXPOSURE LIMITS IN THE MIXING, APPLICATION AND CURING AREAS; AND TO REMOVE DECOMPOSITION PRODUCT DURING WELDING AND FLAME CUTTING ON SURFACES COATED WITH THIS PRODUCT. IN CONFINED AREAS, USE ONLY WITH FORCED VENTILATION ADEQUATE TO KEEP VAPOR CONCENTRATION BELOW 20% OF LOWER EXPLOSION LIMITS. REFER TO OSHA STANDARDS 29CFR 1910.94, 1910.107, 1910.108.

NOTE: HEAVY SOLVENT VAPORS SHOULD BE REMOVED FROM LOWER LEVELS OF THE WORK AREA AND ALL IGNITION SOURCES (NONEXPLOSION-PROOF MOTORS, ETC.) SHOULD BE ELIMINATED.

PROTECTIVE GLOVES: USE SOLVENT IMPERMEABLE GLOVES TO AVOID CONTACT WITH PRODUCT

EYE PROTECTION:

DO NOT GET IN EYES. USE SAFETY EYEWEAR WITH SPLASH GUARDS OR SIDE SHIELDS, CHEMICAL GOGGLES, FACE SHIELDS.

OTHER PROTECTIVE EQUIPMENT:

AVOID CONTACT WITH SKIN. USE PROTECTIVE CLOTHING. PREVENT CONTACT WITH CONTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING, INCLUDING SHOES, BEFORE REUSE.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

DO NOT STORE ABOVE 120 DEG. F. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED TO COMPLY WITH OSHA 1910.106. KEEP AWAY FROM HEAT, SPARKS AND FLAME. KEEP CONTAINERS CLOSED WHEN NOT IN USE AND UPRIGHT TO PREVENT LEAKAGE.

OTHER PRECAUTIONS:

CONTAINERS SHOULD BE GROUNDED WHEN POURING. DO NOT TAKE INTERNALLY. CONTAINS LEAD. DO NOT BREATHE VAPORS, SPRAY MIST OR DUST FROM SANDING OPERATION DO NOT USE ON TOYS, FURNITURE OR SURFACES OF OTHER ARTICLES WHICH MIGHT BE CHEWED BY CHILDREN. WASH HANDS THOROUGHLY AFTER USING AND BEFORE SMOKING OR EATING. EMPTIED CONTAINERS MAY RETAIN HAZARDOUS RESIDUE AND EXPLOSIVE VAPORS KEEP AWAY FROM HEAT, SPARKS AND FLAMES. DO NOT CUT, PUNCTURE OR WELD ON OR NEAR EMPTIED CONTAINERS. FOLLOW ALL HAZARD PRECAUTIONS GIVEN IN THIS DATA SHEET UNTIL CONTAINER IS THOROUGHLY CLEANED OR DESTROYED. IF THIS PRODUCT IS BLENDED WITH OTHER COMPONENTS SUCH AS THINNERS, CONVERTER, COLORANTS, CATALYSTS PRIOR TO USE, READ ALL WARNING LABELS. ANY MIXTURE OF COMPONENTS WILL HAVE HAZARDS OF ALL COMPONENTS. FOLLOW ALL PRECAUTIONS. IF SPRAYING THIS MATERIAL, KEEP SPRAY BOOTHS CLEAN. AVOID BUILD-UP OF SPRAY DUST OR OVERSPRAY IN BOOTHS OR DUCTS.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY

SECTION X - SARA TITLE III INFORMATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF SARA TITLE III EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR PART 372.

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CHEMICAL NAME	CAS NUMBER	% BY WEIGHT	SARA TITLE III SECTION 311 AND 312 HAZARD CATEGORIES
STYRENE MONOMER	000100-42-5	26.7590	IMMEDIATE (ACUTE) DELAYED (CHRONIC) FIRE HAZARD REACTIVE
METHYL METHACRYLATE	000080-62-6	3.9880	IMMEDIATE (ACUTE) FIRE HAZARD REACTIVE
LEAD CHROMATE COMPOUND	001344-37-2	0.6260	IMMEDIATE (ACUTE) DELAYED (CHRONIC)

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