

Check Sheet

Company Name: United Technologies - Pratt & Whitney Corp  
Permit Number: AC 50-168734-168735  
PSD Number: \_\_\_\_\_  
Permit Engineer: \_\_\_\_\_

**Application:**

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

**Intent:**

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

**Final**

**Determination:**

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

**Post Permit Correspondence:**

- Extensions/Amendments/Modifications
- Other

P 938 762 829

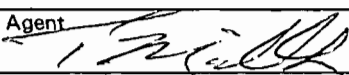
**RECEIPT FOR CERTIFIED MAIL**  
 NO INSURANCE COVERAGE PROVIDED  
 NOT FOR INTERNATIONAL MAIL  
 (See Reverse)

Sent to Mr. R. H. Henson, United Tech- nologies Corp	Street and No. P. O. Box 109600	P.O. State and ZIP Code W. Palm Beach, FL 33410-9600	Postage \$	Certified Fee	Special Delivery Fee	Restricted Delivery Fee	Return Receipt showing to whom and Date Delivered	Return Receipt showing to whom, Date, and Address of Delivery	TOTAL Postage and Fees \$	Postmark or Date Paid: 2-5-90 Permit: AC 50-168734 AC 50-168735
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PS Form 3800, June 1985

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

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

3. Article Addressed to: Mr. R. H. Henson United Technologies Corp. P. O. Box 109600 West Palm Beach, FL 33410-9600	4. Article Number P 938 762 829 Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
5. Signature -- Address X	Always obtain signature of addressee or agent and DATE DELIVERED. 8. Addressee's Address (ONLY if requested and fee paid)
6. Signature -- Agent X 	
7. Date of Delivery 2-7	

PS Form 3811, Mar. 1988

\* U.S.G.P.O. 1988-212-865

DOMESTIC RETURN RECEIPT



# Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION  
NOTICE OF PERMITS

Mr. R. H. Henson  
United Technologies Corp.  
P. O. Box 109600  
West Palm Beach, Florida 33410-9600

February 1, 1990

Enclosed are construction permits Nos. AC 50-168734 and AC 50-168735 to construct/modify spray booths PS-14-SIK and PSB-1-RTF at United Technologies Corp.'s facility in Palm Beach County, Florida. These permits are issued pursuant to Section 403, Florida Statutes.

Any party to these permits has the right to seek judicial review of these permits 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 these permits are filed with the Clerk of the Department.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

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

Copy furnished to:  
Howard G. Levine, P.E.  
I. Goldman, SE District  
J. Stormer, PBCHD

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of business on 2-5-90.

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.

Kim Jones  
Clerk

2-5-90  
Date

Final Determination

United Technologies Corporation

Palm Beach County  
West Palm Beach, Florida

Permit Numbers:

AC 50-168734, Spray Booth PSB-1-RTF  
AC 50-168735, Spray Booth PS-14-SIK

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

January 26, 1990

## Final Determination

United Technologies' applications for permits to construct/modify two spray booths at their existing facility in Palm Beach County, Florida, have been reviewed by the Bureau of Air Regulation.

Public Notice of the Department's Intent to Issue the construction permits was published in The Palm Beach Post on December 30, 1989.

Copies of the Preliminary Determination have been available for public inspection at the Department's Southeast District office in West Palm Beach, the Palm Beach County Health Department in West Palm Beach, and the Department's Bureau of Air Regulation in Tallahassee.

No comments were received as a result of the public notice period.

The final action of the Department is to issue the permit as proposed during the public notice period.



# Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachmann, Secretary

John Shearer, Assistant Secretary

**PERMITTEE:**  
United Technologies Corp.  
Sikorsky Aircraft  
P. O. Box 109610  
West Palm Beach, FL 33410-9610

Permit Number: AC 50-168735  
Expiration Date: June 30, 1990  
County: Palm Beach  
Latitude/Longitude: 26°54'19"N  
81°19'08"W  
Project: Floor Type Spray Booth:  
PS-14-SIK

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

For the construction/modification of a Binks floor type spray booth (Model No. PFA-8-7-T-LH) equipped with an Andraee filter. Interior wood components for aircraft are coated with varnish or lacquer in this booth.

The booth will be located at United Technologies existing aircraft assembly facility which is 20 miles northwest of West Palm Beach on State Road 710 (Beeline Highway) in Palm Beach County.

The UTM coordinates of this facility are Zone 17, 567.5 km East and 2975 km North.

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

Attachments are listed below:

1. Application to Construct Air Pollution Source, DER form 17-2.202(1), dated August 11, 1989.
2. DER letter dated September 5, 1989.
3. United Technologies letter received October 18, 1989.

PERMITTEE:  
United Technologies Corp.

Permit Number: AC 50-168735  
Expiration Date: June 30, 1990

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



PERMITTEE:  
United Technologies Corp.

Permit Number: AC 50-168735  
Expiration Date: June 30, 1990

GENERAL CONDITIONS:

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.

PERMITTEE:  
United Technologies Corp.

Permit Number: AC 50-168735  
Expiration Date: June 30, 1990

**GENERAL CONDITIONS:**

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

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case 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.

PERMITTEE:  
United Technologies Corp.

Permit Number: AC 50-168735  
Expiration Date: June 30, 1990

**GENERAL CONDITIONS:**

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.

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 operating times shall not exceed 16 hrs/day, 6 days/wk, and 52 wks/yr.

2. Total volatile organic compounds and organic solvent emissions shall not exceed 3.7 lbs/hr, 30 lbs/day and 1.7 tons/year. These VOC emissions shall be verifiable on a daily (24-hr) basis. Production shall not exceed 80 aircraft per year without prior approval from the Department. Permittee is limited to using no more than 6.0 gals/day of any combination of lacquer, thinner, paint and organic solvents.

PERMITTEE:  
United Technologies Corp.

Permit Number: AC 50-168735  
Expiration Date: June 30, 1990

SPECIFIC CONDITIONS:

3. EPA Method 24, in accordance with 40 CFR 60, Appendix A, (July 1, 1988) and FAC Rule 17-2.700, or other methods approved by the Department, shall be used to determine the volatile matter content, water content, density, volume solids, and weight solids for each surface coating material. The paint shall be tested as applied and testing shall only be required again if the formula, as applied, changes.
4. During any time the facility is being used for spray painting or other related activities where solvent emissions can escape to the atmosphere, the doors shall be closed. Additional precautions, such as covering of solvent containers when not in use, shall be taken to prevent escape of VOC fugitive emissions.
5. The permittee shall maintain accurate record-keeping of all paints and solvents used in operation of the spray booth.
6. The paint spray booth shall not be operated unless the exhaust fan and abatement equipment are functioning properly.
7. Visible emissions shall not exceed 5 percent opacity (6 min. average), as determined by Method 9 which is described in 40 CFR 60, Appendix A, July 1, 1988, from any part of the booth. The permittee shall notify the DER's Southeast District in writing 15 days prior to Method 9 testing. Compliance test results shall be submitted to the District no later than 45 days after the final test run.
8. No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor pursuant to FAC Rule 17-2.620(2). Objectionable odor is defined as any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance pursuant to FAC Rule 17-2.100(130). Odor is defined as a sensation resulting from stimulation of the human olfactory organ pursuant to FAC Rule 17.2.100(131).
9. This source shall comply with all applicable provisions of Florida Administrative Code, Chapter 17-2 and Chapter 17-4, and Chapter 403, Florida Statutes.

PERMITTEE:  
United Technologies Corp.

Permit Number: AC 50-168735  
Expiration Date: June 30, 1990

**SPECIFIC CONDITIONS:**

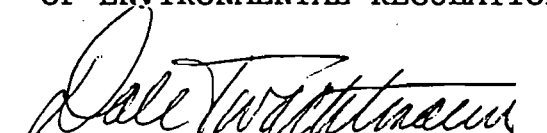
10. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Bureau of Air Regulation prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).

11. An application for an operation permit must be submitted to the Southeast District office at least 90 days prior to the expiration date of this construction permit or within 45 days after completion of compliance testing, whichever occurs first. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rule 17-4.220).

12. Upon obtaining an operating permit, the applicant will be required to submit periodic test reports on the actual operation and emissions of the facility, such as paint analyses obtained by using EPA Method 24, paint vendors specifications to show concurrence with paint analyses performed, and the annual operating report which contains the quantified and qualified actual pollutant emissions from the facility.

Issued this 30 day  
of January, 1990

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

  
Dale Twachtmann, Secretary



# Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

**PERMITTEE:**  
United Technologies Corp.  
Pratt & Whitney  
P. O. Box 109600  
West Palm Beach, FL 33410-9600

Permit Number: AC 50-168734  
Expiration Date: June 30, 1990  
County: Palm Beach  
Latitude/Longitude: 26°55'51"N  
80°20'41"W  
Project: Paint Spray Booth:  
PSB-1-RTF

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

For the construction/modification of a Bink Model CA-528-T-LH truck and automobile paint spray booth equipped with a dry Andraee filter. This spray booth will be equipped with a filtration system to prevent particulate matter emissions. This booth will serve development and test activities and will not be used for any production line process.

The source will be constructed/installed at the permittee's existing facility on SR 710 approximately 20 miles NW of West Palm Beach. The UTM coordinates are Zone 17, 565.6 km East and 2978.5 km North.

The Standard Industrial Classification Codes are: Major Group 73: Business Services; Group No. 739: Miscellaneous Business Services; and, Industry No. 7397: Commercial Testing Laboratories.

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

Attachments are listed below:

1. Application to Construct Air Pollution Sources, DER Form 17-2.202(1), October 11, 1989.
2. Mr. Clair Fancy's letter dated September 5, 1989.
3. Mr. Henson's letter with attachments received October 18, 1989.

PERMITTEE:  
United Technologies Corp.

Permit Number: AC 50-168734  
Expiration Date: June 30, 1990

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

PERMITTEE:  
United Technologies Corp.

Permit Number: AC 50-168734  
Expiration Date: June 30, 1990

**GENERAL CONDITIONS:**

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.



PERMITTEE:  
United Technologies Corp.

Permit Number: AC 50-168734  
Expiration Date: June 30, 1990

**GENERAL CONDITIONS:**

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

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case 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.

PERMITTEE:  
United Technologies Corp.

Permit Number: AC 50-168734  
Expiration Date: June 30, 1990

**GENERAL CONDITIONS:**

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.

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. This booth shall be used for development and test activities only. It shall not be used for production line process.

2. The operating times for this source shall not exceed 8 hrs/day, 5 days/wk, and 52 wks/yr or 2080 hrs/yr.

3. Total volatile organic compounds and organic solvent emissions shall not exceed 800 lbs in any one calendar month, and 2.84 TPY. These VOC emissions shall be verifiable on a daily (24-hour) basis.

PERMITTEE:  
United Technologies Corp.

Permit Number: AC 50-168734  
Expiration Date: June 30, 1990

**SPECIFIC CONDITIONS:**

4. EPA Method 24, in accordance with 40 CFR 60, Appendix A, (July 1, 1988) and FAC Rule 17-2.700, or other methods approved by the Department, shall be used to determine the volatile matter content, water content, density, volume solids, and weight solids for each surface coating material. The paint shall be tested as applied and testing shall only be required again if the formula, as applied, changes.

5. During any time the facility is being used for spray painting or other related activities where solvent emissions can escape to the atmosphere, the doors shall be closed. Additional precautions, such as covering of solvent containers when not in use, shall be taken to prevent escape of VOC fugitive emissions.

6. The permittee shall maintain accurate record-keeping of all paints and solvents used in operation of the spray booth.

7. The paint spray booth shall not be operated unless the exhaust fan and abatement equipment are functioning properly.

8. Visible emissions shall not exceed 5 percent opacity (6 min. average), as determined by Method 9 which is described in 40 CFR 60, Appendix A, July 1, 1988, from any part of the booth. The permittee shall notify the DER's Southeast District in writing 15 days prior to Method 9 testing. Compliance test results shall be submitted to the District no later than 45 days after the final test run.

9. No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor pursuant to FAC Rule 17-2.620(2). Objectionable odor is defined as any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance pursuant to FAC Rule 17-2.100(130). Odor is defined as a sensation resulting from stimulation of the human olfactory organ pursuant to FAC Rule 17.2.100(131).

PERMITTEE:  
United Technologies Corp.

Permit Number: AC 50-168734  
Expiration Date: June 30, 1990

SPECIFIC CONDITIONS:

10. This source shall comply with all applicable provisions of Florida Administrative Code, Chapter 17-2 and Chapter 17-4, and Chapter 403, Florida Statutes.

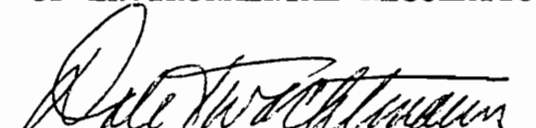
11. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Bureau of Air Regulation prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).

12. An application for an operation permit must be submitted to the Southeast District office at least 90 days prior to the expiration date of this construction permit or within 45 days after completion of compliance testing, whichever occurs first. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rule 17-4.220).

13. Upon obtaining an operating permit, the applicant will be required to submit periodic test reports on the actual operation and emissions of the facility, such as paint analyses obtained by using EPA Method 24, paint vendors specifications, etc. to show concurrence with paint analyses performed, and the annual operating report which contains the quantified and qualified actual pollutant emissions from the facility.

Issued this 30 day  
of January, 1990.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

  
Dale Twachtmann, Secretary



State of Florida  
DEPARTMENT OF ENVIRONMENTAL REGULATION

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

# Interoffice Memorandum

*Please call  
Patty Adams  
when signed  
8-1344*

TO: Dale Twachtmann

FROM: Steve Smallwood *alt Jimmy*

DATE: January 26, 1990

SUBJ: Approval of Construction Permits for United Technologies  
Permit Nos. AC 50-168734 and -168735

Attached for your approval and signature are permits prepared by Bureau of Air Regulation for the above mentioned company to construct/modify two spray booths at their facility in Palm Beach County, Florida.

No comments were received during the public notice period.

Day 90, after which these permits will be issued by default, is February 24, 1990.

I recommend your approval and signature.

Attachments

SS/TH/plm

RECEIVED  
JAN 29 1990

Office of the Secretary



PM  
1-5-90  
WPB, FL

Exp. Mail; MS 196 788 350

P.O. Box 109600  
West Palm Beach, FL 33410-9600  
(305) 840-2000

*Fake copy*

**Government Products Division**

January 4, 1990

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

Re: Proof of Publication - Notice of Proposed Agency  
Action - Sikorsky Paint Spray Booth (PS-14-SIK) and Remote Test  
Facility Paint Spray Booth (PSB-1-RTF)

Dear Mr. Fancy:

In accordance with your letter of December 7, 1989, the Notice of Proposed Agency Action for the subject matter was published in the legal section of the "Post" on December 30, 1989. As requested, we are enclosing "Proof of Publication" from The Palm Beach Post covering this publication.

Should you have any questions, please contact Lisa Hill at (407) 796-5655.

Sincerely,

W. J. Dail, Manager  
Utilities Operations/Environmental Affairs

WJD/1h/8322  
Enclosure

cc: S. Bullock  
I. Goldman  
R. Henson  
L. Hill  
J. Stormer - PBCHD  
File - Air Pollution Correspondence

# THE PALM BEACH POST

Published Daily and Sunday  
West Palm Beach, Palm Beach County, Florida

## PROOF OF PUBLICATION

STATE OF FLORIDA

COUNTY OF PALM BEACH

Before the undersigned authority personally appeared Chris Bull  
who on oath says that she/he is Class. Sales Mgr. of The Palm Beach Post,  
a daily and Sunday newspaper published at West Palm Beach in Palm Beach County,  
Florida; that the attached copy of advertising, being a \_\_\_\_\_  
Notice  
in the matter of \_\_\_\_\_ intent to issue  
in the \_\_\_\_\_ Court, was published in said newspaper in  
the issues of \_\_\_\_\_ December 30, 1989

Affiant further says that the said The Post is a newspaper published at West Palm Beach, in said Palm Beach County, Florida, and that the said newspaper has heretofore been continuously published in said Palm Beach County, Florida, daily and Sunday and has been entered as second class mail matter at the post office in West Palm Beach, in said Palm Beach County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that she/he has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

Sworn to and subscribed before me this 2 day of January A.D. 19 90

*Chris Bull*  
*Thomas M. W. Winters*

NOTARY PUBLIC STATE OF FLORIDA  
MY COMMISSION EXP. NOV. 15, 1992  
BONDED THRU GENERAL INS. UND.

NO. 227320  
State of Florida  
Department of  
Environmental Regulation  
Notice of Intent to Issue  
The Department of Environmental Regulation gives notice of its intent to issue permits to United Technologies Corp., P.O. Box 109600, West Palm Beach, Florida 33410-9600, to modify two existing spray booths at their facility 20 miles NW of West Palm Beach, Palm Beach County, Florida. Total annual volatile organic compound (VOC) emission for each booth will not be increased. VOC emissions are proposed not to exceed 1.7 TPY (spray booth PS-14-SIK) and 2.84 TPY (spray booth PSB-1-RTF). 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 (14) days of publication of this notice. Petitioners 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;

(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.

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The application is available for public inspection during normal 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  
Southeast District office  
1900 S. Congress Ave., Suite A

West Palm Beach, FL 33406  
Palm Beach County  
Health Department  
Division of Environmental Science and Engineering  
901 E. Evernia Street  
West Palm Beach, FL 33402

Any person may send written comments on the proposed action to Mr. Bill Thomas 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.

PUB: Palm Beach Post  
December 30, 1989

**Government Products Division**

December 21, 1989

RECEIVED

DEC 27 1989

DER-BAQM

Palm Beach Post & Times  
Legal Advertising Department  
2751 South Dixie Highway  
West Palm Beach, Florida 33405

Attn: Legal Advertising

Gentlemen:

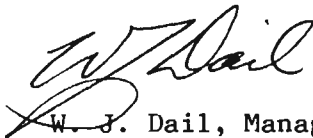
Please publish the attached notice one time only in the Legal Advertisement Section of the Palm Beach Post on Saturday, December 30, 1989.

It is requested that you prepare an affidavit of publication for submission to the Florida Department of Environmental Regulation (DER). Please notify Lisa Hill of our office (796-5655) when it is ready for pickup.

Please forward the bill to the following address:

W. J. Dail  
Pratt & Whitney  
P.O. Box 109600 - Mail Stop 717-03  
West Palm Beach, FL 33410-9600

Sincerely,



W. J. Dail, Manager  
Utilities Operations/Environmental Affairs

jh(9388e)

Attachment

cc: S. Benyon - DER-WPB  
S. Brattebo  
R. Henson  
C. Fancy - DER-Tallahassee  
L. Hill  
File - Air Pollution Correspondence



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 permits to United Technologies Corp., P. O. Box 109600, West Palm Beach, Florida 33410-9600, to modify two existing spray booths at their facility 20 miles NW of West Palm Beach, Palm Beach County, Florida,. Total annual volatile organic compound (VOC) emission for each booth will not be increased. VOC emissions are proposed not to exceed 1.7 TPY (spray booth PS-14-SIK) and 2.84 TPY (spray booth PSB-1-RTF). 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.

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The Petition shall contain the following information:

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- (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.

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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  
Southeast District Office  
1900 S. Congress Avenue, Suite A.  
West Palm Beach, Florida 33406

Palm Beach County Health Department  
Division of Environmental Science and Engineering  
901 E. Evernia Street  
West Palm Beach, Florida 33402

Any person may send written comments on the proposed action to Mr. Bill Thomas 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.

P 938 762 774

**RECEIPT FOR CERTIFIED MAIL**

NO INSURANCE COVERAGE PROVIDED  
NOT FOR INTERNATIONAL MAIL

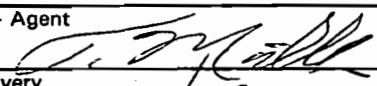
(See Reverse)

PS Form 3800, June 1985

Sent to Mr. R. H. Henson, United	
Street and No. P.O. Box 109600 Technologies	
P.O., State and ZIP Code West Palm Beach, FL 33410-9600	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date Mailed: 12-08-89 Permit: AC 50-168734, -735	

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

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

3. Article Addressed to: Mr. R. H. Henson United Technologies Corp. P. O. Box 109600 West Palm Beach, FL 33410-9600	4. Article Number P 938 762 774  Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
5. Signature - Address X	8. Addressee's Address (ONLY if requested and fee paid)  # 9 2
6. Signature - Agent X 	
7. Date of Delivery 12/12	

Always obtain signature of addressee or agent and DATE DELIVERED.



# Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

December 7, 1989

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. R. H. Henson  
United Technologies Corp.  
P. O. Box 109600  
West Palm Beach, Florida 33410-9600

Dear Mr. Henson:

Attached is one copy of the Technical Evaluation and Preliminary Determination and proposed permits to construct/modify spray booth PS-14-SIK and PSB-1-RTF located at the United Technologies Corp.'s facility at 20 miles NW of West Palm Beach in Palm Beach County, Florida.

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

Sincerely,

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

CHF/TH/plm

Attachments

c: Howard S. Levine, P.E.  
I. Goldman, DER

BEFORE THE STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of  
Application for Permits by:

United Technologies Corp.  
P. O. Box 109600  
West Palm Beach, Florida 33410-9600

DER File No. AC 50-168734  
AC 50-168735

---

INTENT TO ISSUE

The Department of Environmental Regulation hereby gives notice of its intent to issue permits (copies 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, United Technologies Corporation, applied on August 11, 1989, to the Department of Environmental Regulation for permits to modify spray booth PS-14-SIK and PSB-1-RTF located at the United Technologies Corp.'s facility at 20 miles NW of West Palm Beach in Palm Beach County, Florida.

The Department has permitting jurisdiction under Chapter 403, Florida Statutes, and Florida Administrative Code Rules 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

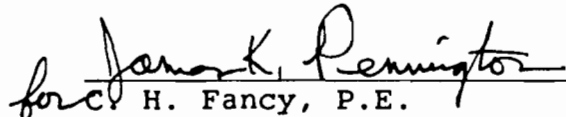
(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

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(s) have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of 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

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

Copies furnished to:

Howard S. Levine, P.E.  
I. Goldman, DER

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 12-8-89.

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.

Kerin Toben  
Clerk

12-8-89  
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 permits to United Technologies Corp., P. O. Box 109600, West Palm Beach, Florida 33410-9600, to modify two existing spray booths at their facility 20 miles NW of West Palm Beach, Palm Beach County, Florida,. Total annual volatile organic compound (VOC) emission for each booth will not be increased. VOC emissions are proposed not to exceed 1.7 TPY (spray booth PS-14-SIK) and 2.84 TPY (spray booth PSB-1-RTF). 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.

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The Petition shall contain the following information:

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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  
Southeast District Office  
1900 S. Congress Avenue, Suite A.  
West Palm Beach, Florida 33406

Palm Beach County Health Department  
Division of Environmental Science and Engineering  
901 E. Evernia Street  
West Palm Beach, Florida 33402

Any person may send written comments on the proposed action to Mr. Bill Thomas 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

United Technologies Corporation

Palm Beach County  
West Palm Beach, Florida

Permit Numbers:

AC 50-168734, Spray Booth PSB-1-RTF  
AC 50-168735, Spray Booth PS-14-SIK

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

December 7, 1989

I. APPLICANT NAME AND ADDRESS

United Technologies  
P. O. Box 109600  
West Palm Beach, Florida 33410-9600

II. REVIEWING AND PROCESS SCHEDULE

Date of Receipt of Application: August 11, 1989

Completeness Review: Department's letter of September 5, 1989. Company's letter of October 11, 1989

Application Completeness Date: October 18, 1989

III. FACILITY INFORMATION

III.1 Facility Location

The proposed sources are located at S.R. 710 - Beeline Hwy., 20 miles N.W. of West Palm Beach, Palm Beach County, Florida. The UTM coordinates are 17,567.5 km East, and 2,975 km North for the PS-14-SIK spray booth and 17,565.6 km East and 2978.5 km North for the PSB-1-RTF spray booth.

III.2 Standard Industrial Classification Code (SIC)

This facility is classified as follows:

Major Group No. 73: Business Services

Industry Group No. 739: Miscellaneous Business Services

Industry No. 7397: Commercial Testing Laboratories

IV. PROJECT DESCRIPTION

This project involves the modification of spray booths PS-14-SIK and PSB-1-RTF. There will be no increase in the annual permitted emissions (TPY) as a result of these modifications. The description and controls for each booth follows:

Paint Spray Booth PSB-1-RTF

This paint spray booth serves development and test activities and is not used for a production line process. The booth is a special Binks Model CA-528-T-LH dry Andraea filter type combination truck and automobile spray booth.

The booth is used for the application of conductive coatings to electromagnetic susceptibility/compatibility test objects (which are classified material). The test objects are models of jet engine parts which are composed of any combination

of fiberglass, wood, aluminum, plastic and graphite. They are coated with a wide range of coatings including but not limited to lacquer primers, polyester primers, polyurethane coatings, silver and nickel paints. Thinners such as acetone, toluene, MEK and lacquer thinner are used to thin the coatings and for cleaning the paint equipment such as spray guns, spray pots, fluid hoses, etc.

A maximum of 4 major test object/month and 16 minor test object/month are being painted at this booth. The hours of operation requested are 8 hrs/day, 5 day/wk and 52 wk/year, which is equivalent to 2080 hrs/year.

The paint spray booth has associated filtration system to prevent PM emissions. The filters will be changed whenever the pressure reading approaches manufacturer's specifications. If the pressure reading exceeds manufacturer's specifications, the exhaust fan, breathing air and air supply for the paint spray gun will automatically shut down.

This source is exempt from Reasonably Available Control Technology, pursuant to F.A.C. Rule 17-2.650(1)(c)2.

#### Paint Spray Booth PS-14-SIK

The paint spray booth is a Binks Model PFA-8-7-T-LH floor type spray booth which is equipped with a 24" diameter 1 1/2 h.p. exhaust fan. A make up air unit with a 24" diameter 2 hp air supply fan supplies air to the booth. The air leaving the booth is filtered through Andraea's exhaust air filters and exhausted through a 24" diameter duct.

The booth is used to paint the interior surfaces of helicopters (credenzas, bulkheads, side trims, and fuel cell extender faces) which are made of a wood veneer. The surfaces are first sealed with a vinyl sanding sealer. They are then sanded and coated with a 94% combination of clear vinyl coating and 6% of an acid catalyst. The sealer and the vinyl coating are both thinned with lacquer thinner. The lacquer thinner is also used to clean the paint equipment. Rescue hoist and hi-intensity lights will not be coated in this spray booth. Gun cleaner is also used two or three times a year to thoroughly clean the guns, however, the minimal amount used is approximately 2 gallons/year.

The filter will effectively remove particulate matter but allow the volatile organic compounds (VOC) from the coating operation to escape. The VOC emissions from the booth will be a direct function of the quantity of solvent used in the coating. VOC emissions are estimated not to exceed 1.7 TPY. The ventilation rate for this booth is 7,400 CFM.

This source is exempt from applicable provisions of F.A.C. Rule 17-2.650(1)(f) Reasonably Available Control Technology (RACT) for volatile organic compounds.

## V. RULE APPLICABILITY

The proposed project is subject to preconstruction review under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code (F.A.C.) Rules 17-2 and 17-4.

The existing facility is a major facility for the pollutant VOC in accordance with F.A.C. Rule 17-2.100(115). VOC are considered precursors to ozone.

The existing facility is located in Palm Beach County, which is an area designated nonattainment for the pollutant ozone pursuant to F.A.C. Rule 17-2.410(1)(e) and attainment for the other criteria pollutants (F.A.C. Rule 17-2.420).

These projects are not subject to the Prevention of Significant Deterioration regulations (F.A.C. Rule 17-2.500) and New Source Review for Nonattainment Areas (F.A.C. Rule 17-2.510) because the modification does not result in a significant emission increase of any criteria pollutant (F.A.C. Rule 17-2.500(2)(d)4.a(iii) and 17-2.510(2)(d)4.a).

The project will be reviewed under F.A.C. Rule 17-2.520, Sources not Subject to Prevention of Significant Deterioration or Nonattainment Requirements. The VOC emission standards shall be based on the RACT regulation exemptions (F.A.C. Rule 17-2.650(1)(c)2) and F.A.C. Rule 17-2.650(1)(f)14 through 17-2.650(1)(f)17 which do not include the coating of interior wood veneer surface of helicopters as a RACT source category. Higher emissions could subject these modifications to review under other regulations.

The proposed sources shall be subject to F.A.C. Rule 17-2.620, General Pollutant Emission Limiting Standards.

F.A.C. Rule 17-2.620(1)(a) states that no person shall store, pump, handle, process, load, unload or use in any process or installation volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department.

F.A.C. Rule 17-2.620(2) states that no person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor.

Paint Spray Booth PSB-1-RTF is exempt from Reasonable Available Control Technology F.A.C. Rule 17-2.650(1)(c)2.; because it is used exclusively for test activities and is not used for production line process. Further, proposed emissions do not exceed 800 lbs in any one calendar month. F.A.C. Rule 17-2.650(1)(c)2 states that sources used exclusively for chemical or physical analysis or for the determination of product quality and commercial acceptance provided: a. the operation of the

source is not an integral part of any production process; and, b. the emissions from the source do not exceed 800 lbs in any one calendar month are exempt from RACT.

Paint Spray Booth PS-14-SIK is exempt from RACT regulations in accordance with F.A.C. Rule 17-2.650(1)(b) since the coating of interior wood veneer surface of helicopters is not classified as a RACT source category. Coating of rescue hoist and hi-intensity lights will subject this booth to RACT regulation (surface coating of miscellaneous metal parts). These parts, as indicated in the application, will not be coated in this booth.

The permittee shall maintain records such that the total VOC emissions can be verified on a daily (24-hr) basis. The annual amount of VOC emissions and the number of assemblies per type processed shall be provided in an annual operating report and submitted to the DER's Southeast Florida District.

EPA Method 24, in accordance with 40 CFR 60, Appendix A, and F.A.C. Rule 17-2.700, or any other approved method by the Department, shall be required to determine the volatile matter content, water content, density, volume solids, and weight solids for each surface coating material. The paint should be tested as applied and testing should only be required again if the formula, as applied, changes.

All compliance tests, record keeping, and reporting shall be in accordance with F.A.C. Rule 17-2.700. The permittee shall notify the DER's Southeast Florida District office in writing 15 days prior to testing and shall submit the test results within 45 days after the last test run.

## VI. EMISSION SUMMARY

### VI.1 Emission Limitation

The regulated pollutant from the proposed modification is VOC. The following table will reflect the pollutant emission limits for the proposed paint spray booth.

Source	Pollutant Allowable Emission Limit			
	lbs/hr	lbs/day	lbs/month	TPY
PS-14-SIK				
Permitted	3.0	15.0		1.7
Proposed	3.7	30.0		1.7
Increase	0.7	15.0		0
	lbs/hr	lbs/day	lbs/month	TPY
PSB-1-RTF				
Permitted	2.73	11.75		2.84
Proposed	-	-	800	2.84
Increase				0

The following table will reflect VOC emission tracking pursuant to Table 500-2, Regulated Pollutants-Significant Emission Rates, and F.A.C. Rule 17-2.510, Nonattainment Review.

<u>Source</u>	<u>VOC Emissions TPY</u>
Previous permits from years: 1986 to 1989	10.63*

\*Emissions as listed in Attachment A of Pratt & Whitney's correspondence of October 11, 1989

Note: New Source Review (NSR) F.A.C. Rule 17-2.510(4) will be triggered once a 40 TPY total of VOC emission increases have occurred.

## VI.2 Air Quality Analysis

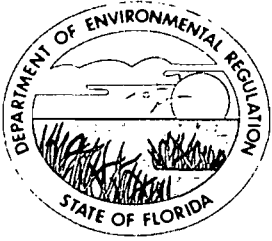
From a technical review of the application, the Department has determined that the construction and operation of these sources will not have a detrimental impact on Florida's ambient air quality.

## VII. CONCLUSION

Based on the information provided by United Technologies Corp., the Department has reasonable assurance that the proposed modification of the proposed projects, as described in this evaluation and subject to the condition 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.







# Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

**PERMITTEE:**  
United Technologies Corp.  
Sikorsky Aircraft  
P. O. Box 109610  
West Palm Beach, FL 33410-9610

**Permit Number:** AC 50-168735  
**Expiration Date:** June 30, 1990  
**County:** Palm Beach  
**Latitude/Longitude:** 26°54'19"N  
81°19'08"W  
**Project:** Floor Type Spray Booth:  
PS-14-SIK

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

For the construction/modification of a Binks floor type spray booth (Model No. PFA-8-7-T-LH) equipped with an Andraee filter. Interior wood components for aircraft are coated with varnish or lacquer in this booth.

The booth will be located at United Technologies existing aircraft assembly facility which is 20 miles northwest of West Palm Beach on State Road 710 (Beeline Highway) in Palm Beach County.

The UTM coordinates of this facility are Zone 17, 567.5 km East and 2975 km North.

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

Attachments are listed below:

1. Application to Construct Air Pollution Source, DER form 17-2.202(1), dated August 11, 1989.
2. DER letter dated September 5, 1989.
3. United Technologies letter received October 18, 1989.

PERMITTEE:  
United Technologies Corp.

Permit Number: AC 50-168735  
Expiration Date: June 30, 1990

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

PERMITTEE:  
United Technologies Corp.

Permit Number: AC 50-168735  
Expiration Date: June 30, 1990

**GENERAL CONDITIONS:**

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.

PERMITTEE:  
United Technologies Corp.

Permit Number: AC 50-168735  
Expiration Date: June 30, 1990

**GENERAL CONDITIONS:**

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

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case 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.

PERMITTEE:  
United Technologies Corp.

Permit Number: AC 50-168735  
Expiration Date: June 30, 1990

**GENERAL CONDITIONS:**

- 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.
- 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 operating times shall not exceed 16 hrs/day, 6 days/wk, and 52 wks/yr.
2. Total volatile organic compounds and organic solvents emissions shall not exceed 3.7 lbs/hr, 30 lbs/day and 1.7 tons/year. These VOC emissions shall be verifiable on a daily (24-hr) basis. Production shall not exceed 80 aircraft per year without prior approval from the Department. Permittee is limited to using no more than 6.0 gals/day of any combination of lacquer, thinner, paint and organic solvents.

PERMITTEE:  
United Technologies Corp.

Permit Number: AC 50-168735  
Expiration Date: June 30, 1990

**SPECIFIC CONDITIONS:**

3. EPA Method 24, in accordance with 40 CFR 60, Appendix A, (July 1, 1988) and FAC Rule 17-2.700, or other methods approved by the Department, shall be used to determine the volatile matter content, water content, density, volume solids, and weight solids for each surface coating material. The paint shall be tested as applied and testing shall only be required again if the formula, as applied, changes.
4. During any time the facility is being used for spray painting or other related activities where solvent emissions can escape to the atmosphere, the doors shall be closed. Additional precautions, such as covering of solvent containers when not in use, shall be taken to prevent escape of VOC fugitive emissions.
5. The permittee shall maintain accurate record-keeping of all paints and solvents used in operation of the spray booth.
6. The paint spray booth shall not be operated unless the exhaust fan and abatement equipment are functioning properly.
7. Visible emissions shall not exceed 5 percent opacity (6 min. average), as determined by Method 9 which is described in 40 CFR 60, Appendix A, July 1, 1988, from any part of the booth. The permittee shall notify the DER's Southeast District in writing 15 days prior to Method 9 testing. Compliance test results shall be submitted to the District no later than 45 days after the final test run.
8. No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor pursuant to FAC Rule 17-2.620(2). Objectionable odor is defined as any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance pursuant to FAC Rule 17-2.100(130). Odor is defined as a sensation resulting from stimulation of the human olfactory organ pursuant to FAC Rule 17.2.100(131).
9. This source shall comply with all applicable provisions of Florida Administrative Code, Chapter 17-2 and Chapter 17-4, and Chapter 403, Florida Statutes.

PERMITTEE:  
United Technologies Corp.

Permit Number: AC 50-168735  
Expiration Date: June 30, 1990

**SPECIFIC CONDITIONS:**

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

11. An application for an operation permit must be submitted to the Southeast District office at least 90 days prior to the expiration date of this construction permit or within 45 days after completion of compliance testing, whichever occurs first. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rule 17-4.220).

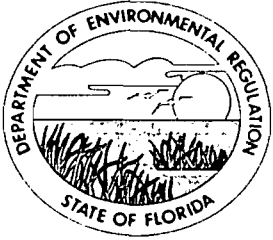
12. Upon obtaining an operating permit, the applicant will be required to submit periodic test reports on the actual operation and emissions of the facility, such as paint analyses obtained by using EPA Method 24, paint vendors specifications to show concurrence with paint analyses performed, and the annual operating report which contains the quantified and qualified actual pollutant emissions from the facility.

Issued this \_\_\_\_\_ day  
of \_\_\_\_\_, 1989

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

---

Dale Twachtmann, Secretary



# Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

**PERMITTEE:**  
United Technologies Corp.  
Pratt & Whitney  
P. O. Box 109600  
West Palm Beach, FL 33410-9600

**Permit Number:** AC 50-168734  
**Expiration Date:** June 30, 1990  
**County:** Palm Beach  
**Latitude/Longitude:** 26°55'51"N  
80°20'41"W

**Project:** Paint Spray Booth:  
PSB-1-RTF

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

For the construction/modification of a Bink Model CA-528-T-LH truck and automobile paint spray booth equipped with a dry Andraee filter. This spray booth will be equipped with a filtration system to prevent particulate matter emissions. This booth will serve development and test activities and will not be used for any production line process.

The source will be constructed/installed at the permittee's existing facility on SR 710 approximately 20 miles NW of West Palm Beach. The UTM coordinates are Zone 17, 565.6 km East and 2978.5 km North.

The Standard Industrial Classification Codes are: Major Group 73: Business Services; Group No. 739: Miscellaneous Business Services; and, Industry No. 7397: Commercial Testing Laboratories.

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

Attachments are listed below:

1. Application to Construct Air Pollution Sources, DER Form 17-2.202(1), October 11, 1989.
2. Mr. Clair Fancy's letter dated September 5, 1989.
3. Mr. Henson's letter with attachments received October 18, 1989.



PERMITTEE:  
United Technologies Corp.

Permit Number: AC 50-168734  
Expiration Date: June 30, 1990

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

PERMITTEE:  
United Technologies Corp.

Permit Number: AC 50-168734  
Expiration Date: June 30, 1990

**GENERAL CONDITIONS:**

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.

PERMITTEE:  
United Technologies Corp.

Permit Number: AC 50-168734  
Expiration Date: June 30, 1990

**GENERAL CONDITIONS:**

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

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case 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.

PERMITTEE:  
United Technologies Corp.

Permit Number: AC 50-168734  
Expiration Date: June 30, 1990

**GENERAL CONDITIONS:**

- 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.
- 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. This booth shall be used for development and test activities only. It shall not be used for production line process.
2. The operating times for this source shall not exceed 8 hrs/day, 5 days/wk, and 52 wks/yr or 2080 hrs/yr.
3. Total volatile organic compounds and organic solvents emissions shall not exceed 800 lbs in any one calendar month, and 2.84 TPY. These VOC emissions shall be verifiable on a daily (24-hour) basis.

PERMITTEE:  
United Technologies Corp.

Permit Number: AC 50-168734  
Expiration Date: June 30, 1990

**SPECIFIC CONDITIONS:**

4. EPA Method 24, in accordance with 40 CFR 60, Appendix A, (July 1, 1988) and FAC Rule 17-2.700, or other methods approved by the Department, shall be used to determine the volatile matter content, water content, density, volume solids, and weight solids for each surface coating material. The paint shall be tested as applied and testing shall only be required again if the formula, as applied, changes.
5. During any time the facility is being used for spray painting or other related activities where solvent emissions can escape to the atmosphere, the doors shall be closed. Additional precautions, such as covering of solvent containers when not in use, shall be taken to prevent escape of VOC fugitive emissions.
6. The permittee shall maintain accurate record-keeping of all paints and solvents used in operation of the spray booth.
7. The paint spray booth shall not be operated unless the exhaust fan and abatement equipment are functioning properly.
8. Visible emissions shall not exceed 5 percent opacity (6 min. average), as determined by Method 9 which is described in 40 CFR 60, Appendix A, July 1, 1988, from any part of the booth. The permittee shall notify the DER's Southeast District in writing 15 days prior to Method 9 testing. Compliance test results shall be submitted to the District no later than 45 days after the final test run.
9. No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor pursuant to FAC Rule 17-2.620(2). Objectionable odor is defined as any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance pursuant to FAC Rule 17-2.100(130). Odor is defined as a sensation resulting from stimulation of the human olfactory organ pursuant to FAC Rule 17.2.100(131).

PERMITTEE:  
United Technologies Corp.

Permit Number: AC 50-168734  
Expiration Date: June 30, 1990

**SPECIFIC CONDITIONS:**

10. This source shall comply with all applicable provisions of Florida Administrative Code, Chapter 17-2 and Chapter 17-4, and Chapter 403, Florida Statutes.

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

12. An application for an operation permit must be submitted to the Southeast District office at least 90 days prior to the expiration date of this construction permit or within 45 days after completion of compliance testing, whichever occurs first. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rule 17-4.220).

13. Upon obtaining an operating permit, the applicant will be required to submit periodic test reports on the actual operation and emissions of the facility, such as paint analyses obtained by using EPA Method 24, paint vendors specifications, etc. to show concurrence with paint analyses performed, and the annual operating report which contains the quantified and qualified actual pollutant emissions from the facility.

Issued this \_\_\_\_\_ day  
of \_\_\_\_\_, 1989

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

---

Dale Twachtmann, Secretary

**Government Products Division**

October 11, 1989

**RECEIVED**  
**OCT 18 1989**  
**DER-BAQM**C. H. Fancy, P.E.  
Department of Environmental Regulation  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

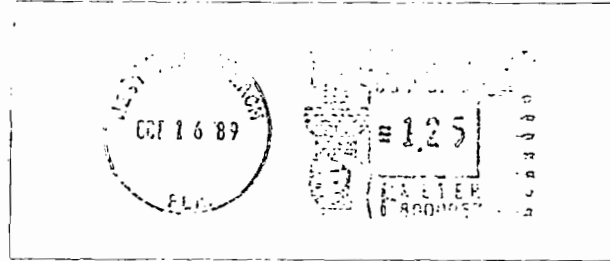
Re: Completeness Review for AC-50-168735 and AC 50-168734

In response to your letter of September 5, 1989 we are transmitting the following:

1. Attachment A, listing all construction permits, with their permitted emissions that have been issued to our West Palm Beach Facility in the last five years.
2. MSDS sheets for each type of coating used in the Sikorsky Spray Booth (PS-14-SIK). (Attachment B)
3. EPA method 24 sheets for coatings used in our Remote Test Facility (PSB-1-RTF). Since the majority of the coatings used do not have MSDS sheets available we are supplying EPA method 24 results for each type of coating we are presently using in that booth. (Attachment C)

In answer to your question regarding the painting of parts that are not exempt from RACT limitations, both rescue hoists and hi-intensity lights will not be coated in this spray booth (PS-14-SIK). In contrast to our May 5, 1986 letter these items of equipment are painted offsite by the vendor they are purchased from. New exempt parts will not be coated in this spray booth.

The original permit application for the Remote Test Facility (PSB-1-RTF) estimated that 240 sub-assemblies (1 ft. diameter by 1 ft. long) and 12 major assemblies (4 ft. diameter X 26 ft. long) will be painted in the booth on an annual basis. These assembly sizes were an estimate and in fact the sizes of the assemblies and sub-assemblies will vary. For estimating purposes only they were recharacterized as large and small objects so as to more accurately estimate the quantity of paint vs. size. Thus for the purpose of this application please disregard the terms of sub-assemblies and major assemblies.



R. H. HENSON, M/S 717-29  
Government Engine Business  
P.O. Box 109600  
West Palm Beach, FL 33410-9600

C H FANCY PE  
DEPARTMENT OF ENVIRONMENTAL REGULATION  
2600 BLAIR STONE ROAD  
TALLAHASSEE FL 32399-2400



Department of Environmental Regulation  
Completeness Review  
October 12, 1989  
Page Two

If you have any questions please do not hesitate to contact either  
Lisa Hill at (407) 796-5655 or Howard Levine at (407) 796-5331.

Very truly yours,



R. H. Henson  
Manager  
Plant Engineering

cc: J. Dail  
R. Henson  
L. Hill  
H. Levine  
Master File

jh (9107e)

*copied:* S. Henson  
J. Goldman, SE Dist.  
Q. Sturmer, PBCHD  
CHF/IST

ATTACHMENT B

MSDS SHEETS FOR SIKORSKY SPRAY BOOTH

(PS-14-SIK)

<u>PAGE NO.</u>	<u>DESCRIPTION OF COATING</u>
B-1	VINYL SANDING SEALER
B-2	SUPER KEMVAR "HS"
B-3	LACQUER THINNER
B-4	KEMVAR CATALYST



CHEMICAL COATINGS

PRODUCT  
DATA

F5

SHER-WOOD®

VINYL SANDING SEALER

T67 F 2

~~Do not re-coat after 30 days~~

## PRODUCT DESCRIPTION

## CHARACTERISTICS

## SPECIFICATIONS

T67 F 2 is a fast drying, high quality Vinyl Sanding Sealer.

**Advantages:**

1. Fast Drying — like a lacquer sealer.
2. Sanding — very good — similar to a lacquer sealer.
3. Moisture Resistance — excellent, superior to lacquer sealers.
4. Blush Resistance — excellent even under adverse conditions.
5. Holdout — Excellent
6. Adhesion — Excellent
7. Meets National Kitchen Cabinet Association requirements in proper systems.
8. Versatile — can be used under lacquers and catalyzed topcoats such as SHER-WOOD Moisture Resistant Lacquer; SHER-WOOD Water-White Lacquer; Super KEMVAR™ "C"; or Super KEMVAR™ "HS."
9. Non-Photochemically Reactive
10. Versatile application — Ready to spray and may be applied with conventional spray, warm spray 110°F. (43°C.), airless spray or curtain coater. No catalyst required.

**Gloss:** Low — sanding sealer  
**Weight Solids:** 20%  
**Volume Solids:** 14%  
**Package Viscosity:** Zahn #2 — 19" to 23"  
**Spreading Rate:** 230 sq. ft./gal. at 1 mil dry, no application loss.  
**Package Life:** 3 years  
**Drying:** Air Dry @ 77°F. (25°C.) 45% RH  
 To Touch — 10 minutes  
 To Handle — 15 minutes  
 To Sand — 30-45 minutes  
 To Recoat — 30-45 minutes  
**Force Dry:** To Sand — 10-15 minutes at 110°F. (43°C.)  
**Flash Point:** 23°F. Pensky Martin Closed Cup.

**Air Quality Data:**

Non-Photochemically Reactive  
~~Volatiles Organic Compounds (VOC) 25.8~~  
 lbs./gal. (692 gms./liter) minus water. Free of lead and chromate hazards.

**Color:** Pale and translucent

**Product Limitations:**

1. Surface to be finished must be free from grease and other foreign matter.
2. Do not apply T67 F 2 over conventional nitrocellulose lacquer, since lifting could occur on recoating.
3. T67 F 2 must not be heated over 115°F.
4. Customer urged to pretest T60 F 2 on his substrate under his shop conditions for evaluation.
5. Not recommended for exterior use.
6. Agitate before using.

**Surface:**

Wood: Clean, dry finish sanded and dust free. Moisture content 6-8%.

**Application:**

Recommended film thickness  
 Wet — 5 to 6 mils  
 Dry — 0.7 to 0.8 mils

Conventional Spray — no reduction

Warm Spray — 115°F. (46°C.) no reduction

Airless Spray — no reduction

If reduction is desired, use Lacquer Thinner R7 K 120.

**Clean Up:**

Use Lacquer Thinner R7 K 120.

**Safety Cautions:**

Contents are FLAMMABLE. Keep away from heat, sparks and open flame. During use and until all vapors are gone: Keep area well ventilated.

CONTAINS TOLUENE AND XYLENE: HARMFUL OR FATAL IF SWALLOWED. If swallowed, DO NOT INDUCE VOMITING. CALL A PHYSICIAN AT ONCE.

VAPOR HARMFUL. Avoid breathing vapor and spray mist. USE ONLY WITH ADEQUATE VENTILATION. Avoid contact with skin and eyes. Wash hands after using. If spilled on clothes, remove clothing and launder before reusing. Keep container closed when not in use. Do not transfer contents to other containers for storage.

**MSDS:**

If a Material Safety Data Sheet is required, contact your local Sherwin-Williams Representative.

**Note:**

The information, rating and opinions given here pertain to the material currently shown and represent the results of tests believed to be reliable. However, due to variations in customer handling and methods of application which are not known or not under control, The Sherwin-Williams Company cannot make any warranties or guarantees as to the end result.

ATTACHMENT A

<u>PERMIT #</u>	<u>DATE ISSUED</u>	<u>PERMITTED EMISSIONS</u>
1. AC 50-162375 Test Area A-Two Gas Fired Jet Fuel Heaters	June 19, 1989	None Listed
2. AC 50-155269 Rocket Support Degreaser	January 31, 1989	Trichloroethylene (VOC) Emission - 1.24 Lbs/Hr and 2.84 TPY
3. AC 50-130042 Remote Test Facility Dust Collector	July 14, 1987	Particulate Emissions 0.21 Lbs/Hr and 0.22 TPY
4. AC 50-130043 Remote Test Facility Paint Spray Booth	July 14, 1987	VOC Emissions 2.73 Lbs/Hr 11.75 Lbs/Day and 2.84 TPY
5. AC 50-113559 Sikorsky Binks Floor Type Spray Booth (PS-14-SIK)	July 29, 1986	VOC Emissions 3 Lbs/Hr - 15 Lbs/Day and 1.7 TPY
6. AC 50-113784 Sikorsky Binks Auto Spray Booth (PS-15-SIK)	July 29, 1986	VOC Emissions 243.5 Lbs/Day and 3.25 TPY
7. AC 50-113785 Sikorsky Dust Collector (DC-4-SIK)	July 29, 1986	None Listed



CHEMICAL COATINGS

PRODUCT DATA F9

SHER-WOOD® SUPER KEMVAR® "HS"

168 3/16  
180 9/11

1 Gal Lacquer  
1 Gal Solvent  
1 Pint Catalyst

Do not recoat after 30 days

Gloss	T77 C 50
MRE	T77 F 52
DRE	T77 F 53

PRODUCT DESCRIPTION

CHARACTERISTICS

SPECIFICATIONS

SHER-WOOD® Super KEMVAR® "HS" finishes are catalyzed clear vinyl coatings for interior use on furniture and cabinets where exceptional build, toughness and chemical resistance are required.

Advantages:

1. Higher solids ("HS").
2. Excellent moisture resistance.
3. Excellent household chemical resistance.
4. Excellent cold check resistance.
5. No reduction required. (Must be catalyzed.)
6. Good mar resistance.
7. Good color retention.
8. Non Photochemically Reactive.

Gloss: T77 C 50 — Full  
T77 F 52 — MRE (32-34)  
T77 F 53 — DRE (18-20)

Weight Solids: 39%

Volume Solids: 30%

Package Viscosity: Zahn #2 — 23-28"

Spreading Rate: 480 sq. ft./gal. — 1 mil dry, no application loss

Package Life: 2 years

Drying: Air Dry 77°F. (25°C.), 45% RH  
To Touch — 15 minutes  
To Handle — 1.5 hours  
To Pack — 18 hours  
To Recoat — 2 hours

Force Dry: at 140°F. (60°C.)  
To Recoat — 20 minutes  
To Pack — 1 hour

Flash Point: 25°F. Pensky Martin Closed Cup

Air Quality Data: Non-Photochemically Reactive  
Volatile Organic Compounds (VOC) 4.75 lbs./gal. (570 gms./liter) minus water. Free of lead and chromate hazards.

Color: Pale amber

Cold Check Resistance: 20 cycles

Print Resistance: No Print  
One mil dry SHER-WOOD Vinyl Sanding Sealer T67 F 2.  
Two mils dry SHER-WOOD Super KEMVAR "HS".  
Dry 18 to 24 hours at 77°F. (25°C.)  
Print test 18 hours at 2 psi at 77°F. (25°C.) in direct contact with 8 ounce Duck Cloth

Household Chemical Tests: Panels prepared as for Print Resistance Test. After films were aged 30 days at 77°F. (25°C.) five drops of each item were placed under a watch glass for one hour. Then the film was rinsed with water, washed with warm water and soap, dried and wiped with VM&P Naphtha to remove items not removed with water.

Surface: Wood: Clean, dry, finish sanded, and dust free. Moisture content 6-8%.

Application: Catalyze SHER-WOOD Super KEMVAR "HS" for each 8 hour working period with 6% of Super KEMVAR Catalyst V66 V 25.

Recommended film thickness — each coat  
Wet — 5 mils  
Dry — 1.5 mils

Spray: Conventional — no reduction  
Use 50-65 psi atomization  
6-7 psi fluid

If reduction needed due to equipment limitation use Lacquer Thinner R7 K 120.

Spray: Airless — no reduction.  
Dip: Not recommended.

Clean Up: Use R7 K 120.

- Finishing Systems:
- A. Sanding Sealer System
    1. Seal with SHER-WOOD Vinyl Sanding Sealer T67 F 2 and dry 30 minutes.
    2. Sand with 220 grit paper and remove sanding dust.
    3. Topcoat with SHER-WOOD Super KEMVAR "HS". For more depth add a second coat.
  - B. For single product finishing SHER-WOOD Super KEMVAR "HS" may be used instead of Sanding Sealer.

Safety Caution: Contents are FLAMMABLE. Keep away from heat, sparks, and open flame during use until all vapors are gone. Keep area ventilated. USE ONLY WITH ADEQUATE VENTILATION. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage.

MSDS: If a Material Safety Data Sheet is required, contact your local Sherwin-Williams Representative.

This Product used by Deco on the interior walls

(continued on back)

(continued on back)

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**Section V -- HEALTH HAZARD DATA**


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**ROUTES OF EXPOSURE**

Exposure may be by INHALATION and/or SKIN or EYE contact, depending on conditions of use. Alcohols and acetates can be absorbed through the skin. Follow recommendations for proper use, ventilation, and personal protective equipment to minimize exposure.

**ACUTE Health Hazards****EFFECTS OF OVEREXPOSURE**

Irritation of eyes, skin and respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

None generally recognized.

**EMERGENCY AND FIRST AID PROCEDURES**

If INHALED: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

If on SKIN: Wash affected area thoroughly with soap and water.

Remove contaminated clothing and launder before re-use.

If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

If SWALLOWED: Never give anything by mouth to an unconscious person. DO NOT INDUCE

VOMITING. Give several glasses of water. Seek medical attention.

**CHRONIC Health Hazards**

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Prolonged overexposure to solvent ingredients in Section II may cause adverse effects to the liver, urinary, blood forming, cardio-vascular, and reproductive systems.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

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**Section VI -- REACTIVITY DATA**


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**STABILITY -- Stable****HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION -- Will Not Occur**


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**Section VII -- SPILL OR LEAK PROCEDURES**


---

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

Remove all sources of ignition. Ventilate and remove with inert absorbent.

**WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

---

**Section VIII -- PROTECTION INFORMATION**


---

**PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.

**VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section II is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

R7 K 120

## MATERIAL SAFETY DATA SHEET

88A

MANUFACTURER'S NAME  
 THE SHERWIN-WILLIAMS COMPANY  
 101 Prospect Avenue N.W.  
 Cleveland, Ohio 44115

EMERGENCY TELEPHONE NO.  
 (216) 566-2917

DATE OF PREPARATION  
 25-Jul-88

INFORMATION TELEPHONE NO.  
 (216) 566-2902

 -----  
 Section I -- PRODUCT IDENTIFICATION  
 -----

PRODUCT NUMBER  
 R7 K 120

\* - Trade Mark

PRODUCT NAME  
 OPEX\* Lacquer Thinner

PRODUCT CLASS  
 Reducer

 -----  
 Section II -- HAZARDOUS INGREDIENTS  
 -----

CAS No.	INGREDIENT	% by WEIGHT	ACGIH-TLV	OSHA-PEL	UNITS	V.P.
64742-89-8	Lt. Aliphatic Hydrocarbon Solvent.	20	100	500	PPM	53.0
64742-48-9	V. M. & P. Naphtha.	15	300		PPM	12.0
108-88-3	Toluene.	15	100	200	PPM	22.0
1330-20-7	Xylene.	5	100	100	PPM	5.9
67-56-1	Methanol	<5	200	200	PPM	92.0
64-17-5	Ethanol	5	1000	1000	PPM	44.0
78-83-1	2-Methyl-1-propanol	5	50	100	PPM	8.7
111-76-2	2-Butoxyethanol	<5	25 (Skin)	50	PPM	0.6
67-64-1	Acetone.	20	750	1000	PPM	180.0
110-43-0	Methyl n-Amyl Ketone.	<5	50	100	PPM	2.1
110-19-0	Isobutyl Acetate.	5	150	150	PPM	12.5

 -----  
 Section III -- PHYSICAL DATA  
 -----

EVAPORATION RATE -- Slower than Ether                      VAPOR DENSITY -- Heavier than Air  
 BOILING RANGE                      VOLATILE VOLUME                      WT/GAL                      VOC (Theoretical)  
 132-340 F                      100.0 %                      6.57 lb.                      6.57 lb. 788 gm.

 -----  
 Section IV -- FIRE AND EXPLOSION HAZARD DATA  
 -----

FLAMMABILITY CLASSIFICATION                      FLASH POINT                      3 F TCC                      LEL                      0.9  
 RED LABEL -- Extremely Flammable, Flash below 21 F

## EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

## UNUSUAL FIRE AND EXPLOSION HAZARDS

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

## 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 autoignition or explosion when exposed to extreme heat.

---

**RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section II.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section II.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

---

**Section IX -- PRECAUTIONS**

---

**DOL STORAGE CATEGORY -- 1B****PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Contents are **EXTREMELY FLAMMABLE**. Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

**OTHER PRECAUTIONS**

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.



V66, V 26

**MATERIAL SAFETY DATA SHEET**  
**FOR COATINGS, RESINS AND RELATED MATERIALS**  
 (Approved by U.S. Department of Labor 'Essentially Similar' to form OSHA-20)

MANUFACTURER'S NAME  
 THE SHERWIN-WILLIAMS COMPANY  
 101 Prospect Avenue N.W.  
 Cleveland, Ohio 44115

EMERGENCY TELEPHONE NO.  
 (216) 566-2917

DATE OF PREPARATION  
 27-Jan-87

INFORMATION TELEPHONE NO.  
 (216) 566-2902

-----  
**Section I -- PRODUCT IDENTIFICATION**  
 -----

PRODUCT NUMBER  
 V66 V 26

\* - Trade Mark

PRODUCT NAME  
 SHER-WOOD\* Super KEMVAR\* Catalyst  
 PRODUCT CLASS  
 Acid Catalyst

-----  
**Section II -- HAZARDOUS INGREDIENTS**  
 -----

CAS No.	INGREDIENT	% by WEIGHT	ACGIH-TLV	OSHA-PEL	UNITS	V.P.
108-88-3	Toluene.	5	100	200	PPM	22.0
64-17-5	Ethanol	60	1000	1000	PPM	44.0
71-36-3	1-Butanol	5	50	100	PPM	5.5
108-10-1	Methyl Isobutyl Ketone.	5	50	100	PPM	16.0
Not avail.	Phenyl Acid Phosphate.	20	Not Established			

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen

-----  
**Section III -- PHYSICAL DATA**  
 -----

EVAPORATION RATE -- Slower than Ether	VAPOR DENSITY -- Heavier than Air
BOILING RANGE (F) 172 - 325	% VOLATILE VOLUME 86.3
	WT/GAL 7.32

-----  
**Section IV -- FIRE AND EXPLOSION HAZARD DATA**  
 -----

FLAMMABILITY CLASSIFICATION      FLASH POINT      42 F PMCC      LEL      0.9  
 RED LABEL -- Flammable, Flash below 100 F  
 EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**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 autoignition or explosion when exposed to extreme heat.

-----  
**Section V -- HEALTH HAZARD DATA**  
 -----

THRESHOLD LIMIT VALUE -- See Section II

**EFFECTS OF OVEREXPOSURE**

**ACUTE:** Overexposure causes eye, skin and respiratory irritation. May cause nervous system depression accompanied by headache, dizziness, nausea, confusion and staggering gait. Extreme overexposure may result in unconsciousness and possibly death.

**CHRONIC:** Prolonged overexposure to ingredients in Section II may cause adverse effects to the liver, urinary, blood forming, and cardio-vascular systems.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

**EMERGENCY AND FIRST AID PROCEDURES**

**If INHALED:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**If on SKIN:** Wash affected area thoroughly with soap and water.

Remove contaminated clothing and launder before re-use.

**If in EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

 -----  
**Section VI -- REACTIVITY DATA**  
 -----

**STABILITY --** Stable

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide, Phosphoric Acid Fumes, Oxides of Phosphorus

**HAZARDOUS POLYMERIZATION --** Will Not Occur

 -----  
**Section VII -- SPILL OR LEAK PROCEDURES**  
 -----

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

Remove all sources of ignition. Ventilate and remove with inert absorbent.

**WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

 -----  
**Section VIII -- PROTECTION INFORMATION**  
 -----

**PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.

Protect against dust which may be generated by sanding or abrading the dried film.

**VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section II is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear respiratory device approved by NIOSH/MSHA for protection against materials in Section II.

**PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section II.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields. \*

-----  
Section IX -- PRECAUTIONS  
-----

## HOL STORAGE CATEGORY -- 1B

## PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

## OTHER PRECAUTIONS

This coating contains materials classified as nuisance particulates, for example titanium dioxide, calcium carbonate, etc. (see ACGIH TLV List, Preface and Appendix B), which may be present at hazardous levels only during sanding or abrading of the dried film.

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

ATTACHMENT C

EPA METHOD 24 SHEETS FOR REMOTE TEST FACILITY

(PSB-1-RTF)

<u>PAGE NO.</u>	<u>DESCRIPTION OF COATING</u>
*C-1	POLYESTER PRIMER SURFACER (FEATHERFILL)
C-2	POLY VINYL ALCOHOL
*C-3	SILVER PAINT (ELECTRODAG)
C-4	NICKEL PAINT
**C-5	POLYURETHANE CATALYST
C-6	METHYL ETHYL KETONE PEROXIDE
C-7	POLYURETHANE PAINT
C-8	POLYESTER GEL COAT
C-9	SANDING SEALER
C-10	CARBONYL IRON POWDER
*C-11	LACQUER PRIMER
C-12	EPOXY HARDENER
C-13	EPOXY RESIN
*C-14	ERCON
**C-15	PRC SURFACE COATING
C-16	POLYESTER RESIN

\* COATINGS WHICH ARE USED MOST FREQUENTLY.

\*\* THESE COATINGS ARE COMBINED AT A RATIO OF 5 PARTS PRC SURFACE COATING TO 1 PART POLYURETHANE CATALYST TO FORM "PRC RAM".



1149  
PRATT WHITNEY  
ENV. AFFAIRS M/S 717-03  
P.O. BOX 109600  
WEST PALM BEACH, FLORIDA 33410-9600  
ATTN: MR. STEVE DEVINE  
Sample Collected: 02/19/88  
Sample Received: 02/25/88  
Sample Description: EPA Method 24. Sample Point PSB-1-RTF

Page 1 of 11  
March 15, 1988  
Report #24681

LAB I.D. #86119

Collected By: Your Rep.

<u>REPORT OF ANALYSIS: #21988-854</u>		<u>UNITS</u>	<u>DATE</u>
SOLIDS, TOTAL	46	%	03/02/88
DENSITY	1.06	g/ml	03/14/88
VOLATILE SOLIDS % DRY WEIGHT	10	%	03/02/88
PERCENTAGE OF WATER	<1	%	02/27/88

Analyses performed in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully submitted,

ENVIROPACT, INC.

JEFFREY G. GLASS  
LABORATORY SUPERVISOR



ENVIROPACT

1149  
 PRATT WHITNEY  
 ENV. AFFAIRS M/S 717-03  
 P.O. BOX 109600  
 WEST PALM BEACH, FLORIDA 33410-9600  
 ATTN: MR. STEVE DEVINE  
 Sample Collected: 02/19/88  
 Sample Received: 02/25/88  
 Sample Description: EPA Method 24. Sample Point PSB-1-RTF

Page 2 of 11  
 March 15, 1988  
 Report #24681

LAB I.D. #86119

Collected By: Your Rep.

<u>REPORT OF ANALYSIS: #21988-855</u>		<u>UNITS</u>	<u>DATE</u>
SOLIDS, TOTAL	7	%	03/02/88
DENSITY	0.90	g/ml	03/14/88
VOLATILE SOLIDS % DRY WEIGHT	54	%	03/02/88
PERCENTAGE OF WATER	39	%	02/27/88

Analyses performed in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully submitted,

ENVIROPACT, INC.

JEFFREY G. GLASS  
 LABORATORY SUPERVISOR



1149  
 PRATT WHITNEY  
 ENV. AFFAIRS M/S 717-03  
 P.O. BOX 109600  
 WEST PALM BEACH, FLORIDA 33410-9600  
 ATTN: MR. STEVE DEVINE  
 Sample Collected: 02/19/88  
 Sample Received: 02/25/88  
 Sample Description: EPA Method 24. Sample Point PSB-1-RTF

Page 3 of 11  
 March 15, 1988  
 Report #24681

LAB I.D. #86119

Collected By: Your Rep.

REPORT OF ANALYSIS: #21988-856		UNITS	DATE
*SOLIDS, TOTAL	25	%	03/02/88
DENSITY	1.58	g/ml	03/14/88
VOLATILE SOLIDS % DRY WEIGHT	4	%	03/02/88
PERCENTAGE OF WATER	3	%	02/27/88

\*Calculated on volume basis.

Analyses performed in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully submitted,

ENVIROPACT, INC.

*Jeffrey S. Glass*

JEFFREY G. GLASS  
 LABORATORY SUPERVISOR



1149  
 PRATT WHITNEY  
 ENV. AFFAIRS M/S 717-03  
 P.O. BOX 109600  
 WEST PALM BEACH, FLORIDA 33410-9600  
 ATTN: MR. STEVE DEVINE

Page 4 of 11  
 March 15, 1988  
 Report #24681

LAB I.D. #86119

Sample Collected: 02/19/88

Sample Received: 02/25/88

Collected By: Your Rep.

Sample Description: EPA Method 24. Sample Point PSB-1-RTF

REPORT OF ANALYSIS: #21988-857		UNITS	DATE
*SOLIDS, TOTAL	34	%	03/02/88
DENSITY	1.20	g/ml	03/14/88
VOLATILE SOLIDS % DRY WEIGHT	20	%	03/02/88
PERCENTAGE OF WATER	<1	%	02/27/88

\*Calculated on volume basis.

Analyses performed in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully submitted,

ENVIROPACT, INC.

*Jeffrey S. Glass*

JEFFREY G. GLASS  
 LABORATORY SUPERVISOR





1149  
 PRATT WHITNEY  
 ENV. AFFAIRS M/S 717-03  
 P.O. BOX 109600  
 WEST PALM BEACH, FLORIDA 33410-9600  
 ATTN: MR. STEVE DEVINE  
 Sample Collected: 02/19/88  
 Sample Received: 02/25/88  
 Sample Description: EPA Method 24. Sample Point PSB-1-RTF

Page 5 of 11  
 March 15, 1988  
 Report #24681

LAB I.D. #86119

Collected By: Your Rep.

<u>REPORT OF ANALYSIS: #21988-858</u>		<u>UNITS</u>	<u>DATE</u>
SOLIDS, TOTAL	44	%	03/02/88
DENSITY	0.93	g/ml	03/14/88
VOLATILE SOLIDS % DRY WEIGHT	72	%	03/02/88
PERCENTAGE OF WATER	7	%	02/27/88

Analyses performed in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully submitted,

ENVIROPACT, INC.

JEFFREY G. GLASS  
 LABORATORY SUPERVISOR



## ENVIROPACT

1149  
 PRATT WHITNEY  
 ENV. AFFAIRS M/S 717-03  
 P.O. BOX 109600  
 WEST PALM BEACH, FLORIDA 33410-9600  
 ATTN: MR. STEVE DEVINE

Page 6 of 11  
 March 15, 1988  
 Report #24681

LAB I.D. #86119

Sample Collected: 02/19/88

Sample Received: 02/25/88

Collected By: Your Rep.

Sample Description: EPA Method 24. Sample Point PSB-1-RTF

REPORT OF ANALYSIS: #21988-859		UNITS	DATE
SOLIDS, TOTAL	<1	%	03/02/88
DENSITY	1.12	g/ml	03/14/88
VOLATILE SOLIDS % DRY WEIGHT	>99	%	03/02/88
PERCENTAGE OF WATER	<1	%	02/27/88

Analyses performed in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully submitted,

ENVIROPACT, INC.

*Jeffrey S. Glass*

JEFFREY G. GLASS  
 LABORATORY SUPERVISOR



1149  
PRATT WHITNEY  
ENV. AFFAIRS M/S 717-03  
P.O. BOX 109600  
WEST PALM BEACH, FLORIDA 33410-9600  
ATTN: MR. STEVE DEVINE  
Sample Collected: 02/19/88  
Sample Received: 02/25/88  
Sample Description: EPA Method 24. Sample Point PSB-1-RTF

Page 7 of 11  
March 15, 1988  
Report #24681  
LAB I.D. #86119

Collected By: Your Rep.

REPORT OF ANALYSIS: #21988-860		UNITS	DATE
SOLIDS, TOTAL	99	%	03/02/88
DENSITY	1.05	g/ml	03/14/88
VOLATILE SOLIDS % DRY WEIGHT	97	%	03/02/88
PERCENTAGE OF WATER	<1	%	02/27/88

Analyses performed in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully submitted,

ENVIROPACT, INC.

JEFFREY G. GLASS  
LABORATORY SUPERVISOR



1149  
 PRATT WHITNEY  
 ENV. AFFAIRS M/S 717-03  
 P.O. BOX 109600  
 WEST PALM BEACH, FLORIDA 33410-9600  
 ATTN: MR. STEVE DEVINE  
 Sample Collected: 02/19/88  
 Sample Received: 02/25/88  
 Sample Description: EPA Method 24. Sample Point PSB-1-RTF

Page 8 of 11  
 March 15, 1988  
 Report #24681

LAB I.D. #86119

Collected By: Your Rep.

REPORT OF ANALYSIS: #21988-861		UNITS	DATE
* SOLIDS, TOTAL	53	‡	03/02/88
DENSITY	1.27	g/ml	03/14/88
VOLATILE SOLIDS ‡ DRY WEIGHT	66	‡	03/02/88
PERCENTAGE OF WATER	<1	‡	02/27/88

\* Calculated on volume basis.

Analyses performed in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully submitted,

ENVIROPACT, INC.

*Jeffrey S. Glass*

JEFFREY G. GLASS  
 LABORATORY SUPERVISOR



1149  
 PRATT WHITNEY  
 ENV. AFFAIRS M/S 717-03  
 P.O. BOX 109600  
 WEST PALM BEACH, FLORIDA 33410-9600  
 ATTN: MR. STEVE DEVINE

Page 9 of 11  
 March 15, 1988  
 Report #24681

LAB I.D. #86119

Sample Collected: 02/19/88

Sample Received: 02/25/88

Collected By: Your Rep.

Sample Description: EPA Method 24. Sample Point PSB-1-RTF

REPORT OF ANALYSIS: #21988-862		UNITS	DATE
* SOLIDS, TOTAL	44	%	03/02/88
DENSITY	0.85	g/ml	03/14/88
VOLATILE SOLIDS % DRY WEIGHT	98	%	03/02/88
PERCENTAGE OF WATER	<1	%	02/27/88

\* Calculated on volume basis.

Analyses performed in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully submitted,

ENVIROPACT, INC.

*Jeffrey S. Glass*

JEFFREY G. GLASS  
 LABORATORY SUPERVISOR



1149  
 PRATT WHITNEY  
 ENV. AFFAIRS M/S 717-03  
 P.O. BOX 109600  
 WEST PALM BEACH, FLORIDA 33410-9600  
 ATTN: MR. STEVE DEVINE

Page 10 of 11  
 March 15, 1988  
 Report #24681

LAB I.D. #86119

Sample Collected: 02/19/88

Sample Received: 02/25/88

Collected By: Your Rep.

Sample Description: EPA Method 24. Sample Point PSB-1-RTF

REPORT OF ANALYSIS: #21988-863		UNITS	DATE
SOLIDS, TOTAL	>99	%	03/02/88
DENSITY	2.87	g/ml	03/14/88
VOLATILE SOLIDS % DRY WEIGHT	5	%	03/02/88
PERCENTAGE OF WATER	<1	%	02/27/88

Analyses performed in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully submitted,

ENVIROPACT, INC.

*Jeffrey S. Glass*

JEFFREY G. GLASS  
 LABORATORY SUPERVISOR



ENVIROPACT

1149  
 PRATT WHITNEY  
 ENV. AFFAIRS M/S 717-03  
 P.O. BOX 109600  
 WEST PALM BEACH, FLORIDA 33410-9600  
 ATTN: MR. STEVE DEVINE

Page 11 of 11  
 March 15, 1988  
 Report #24681

LAB I.D. #86119

Sample Collected: 02/19/88

Sample Received: 02/25/88

Collected By: Your Rep.

Sample Description: EPA Method 24. Sample Point PSB-1-RTF

<u>REPORT OF ANALYSIS: #21988-864</u>		<u>UNITS</u>	<u>DATE</u>
SOLIDS, TOTAL	20	%	03/02/88
DENSITY	0.92	g/ml	03/14/88
VOLATILE SOLIDS % DRY WEIGHT	63	%	03/02/88
PERCENTAGE OF WATER	<1	%	02/27/88

Analyses performed in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully submitted,

ENVIROPACT, INC.

JEFFREY G. GLASS  
 LABORATORY SUPERVISOR

11149  
 PRATT WHITNEY  
 ENV.AFFAIRS M/S 717-03  
 P. O. BOX 109600  
 W. PALM BEACH, FL 33410-9600

Page 3 of 4  
 September 22, 1988  
 Report 27330

LAB ID. 86119

ATT : BILL CARSON

Sample Collected: 8/19/88

Sample Received: 8/22/88

Collected By: YOUR REP.

Sample Description: PRATT & WHITNEY EPOXY HARDENER

REPORT OF ANALYSIS : EPOXY HARDENER		UNITS	DATE
DENSITY	1.00	g/ml	9/06/88
PERCENT WATER	6	%	8/29/88
SOLIDS, TOTAL	63	%	8/25/88
VOLATILE SOLIDS % DRY WEIGHT	67	%	8/29/88

Analyses performed in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

*Michael Rentoumis*

Michael Rentoumis  
 Laboratory Supervisor *MR*  
 Enviropact Services, Inc.



11149  
 PRATT WHITNEY  
 ENV.AFFAIRS M/S 717-03  
 P. O. BOX 109600  
 W. PALM BEACH, FL 33410-9600  
 ATT : BILL CARSON  
 Sample Collected: 8/19/88  
 Sample Received: 8/22/88  
 Sample Description: PRATT & WHITNEY EPOXY RESIN

Page 4 of 4  
 September 22, 1988  
 Report 27330

LAB ID. 86119

Collected By: YOUR REP.

REPORT OF ANALYSIS : EPOXY RESIN

		UNITS	DATE
DENSITY	1.39	g/ml	9/06/88
PERCENT WATER	< 1	%	8/29/88
SOLIDS, TOTAL	91	%	8/25/88
VOLATILE SOLIDS % DRY WEIGHT	41	%	8/29/88

Analyses performed in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

*Michael J. Pantoumis*

Michael Rentoumis  
 Laboratory Supervisor *MR*  
 Enviropact Services, Inc.



11149

Page 1 of 3

PRATT WHITNEY  
 ENV. AFFARIS M/S 717-03  
 P.O. BOX 109600  
 W. PALM BEACH, FLORIDA 33410-9600

May 5, 1989  
 Report 30257  
 LAB I.D. 86119

ATTN: BILL CARSON

Sample Collected: 04/24/89

Sample Received: 04/26/89

Collected by: YOUR REP.

Sample Description: HWS-1 PRATT &amp; WHITNEY, WEST PALM BEACH

REPORT OF ANALYSIS: 4106

UNITS

DATE

		UNITS	DATE
VOLATILE MATTER CONTENT	13.4	%	04/28/89
WATER CONTENT	<1.0	%	05/01/89
DENSITY	1.23	g/ml	04/28/89
SOLID CONTENT	24.1	%	05/02/89

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully submitted,

Jeffrey S. Glass  
 Laboratory Supervisor  
 Enviropact, Inc.

11149

PRATT WHITNEY  
 ENV. AFFARIS M/S 717-03  
 P.O. BOX 109600  
 W. PALM BEACH, FLORIDA 33410-9600

Page 3 of 3

May 5, 1989  
 Report 30257  
 LAB I.D. 86119

ATTN: BILL CARSON

Sample Collected: 04/24/89

Sample Received: 04/26/89

Collected by: YOUR REP.

Sample Description: HWS-1 PRATT &amp; WHITNEY, WEST PALM BEACH

REPORT OF ANALYSIS: 4108

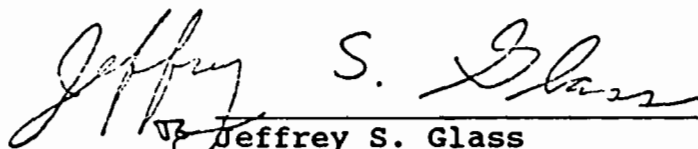
UNITS

DATE

		UNITS	DATE
VOLATILE MATTER CONTENT	7.6	%	04/28/89
WATER CONTENT	5.6	%	05/01/89
DENSITY	1.18	g/ml	04/28/89
SOLID CONTENT	44.8	%	05/02/89

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully submitted,



Jeffrey S. Glass  
 Laboratory Supervisor  
 Enviropact, Inc.

11149

PRATT WHITNEY  
 ENV. AFFARIS M/S 717-03  
 P.O. BOX 109600  
 W. PALM BEACH, FLORIDA 33410-9600

Page 2 of 3

May 5, 1989  
 Report 30257  
 LAB I.D. 86119

ATTN: BILL CARSON

Sample Collected: 04/24/89

Sample Received: 04/26/89

Collected by: YOUR REP.

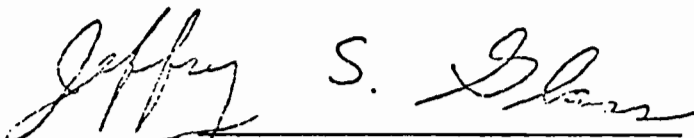
Sample Description: HWS-1 PRATT &amp; WHITNEY, WEST PALM BEACH

REPORT OF ANALYSIS: 4107

		UNITS	DATE
VOLATILE MATTER CONTENT	20.2	%	04/28/89
WATER CONTENT	2.8	%	05/01/89
DENSITY	0.89	g/ml	04/28/89
SOLID CONTENT	67.7	%	05/02/89

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully submitted,



Jeffrey S. Glass  
 Laboratory Supervisor  
 Enviropact, Inc.

P 938 762 671

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED  
NOT FOR INTERNATIONAL MAIL

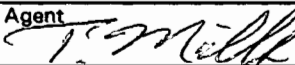
(See Reverse)

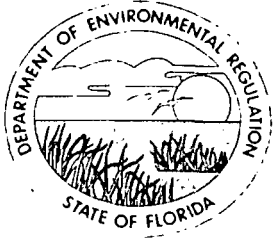
PS Form 3800, June 1985

Sent to Mr. R. H. Henson, United	
Street and No. Technologies P. O. Box 109610	
P.O., State and ZIP Code West Palm Beach, FL 33410-9610	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date Mailed: 9-6-89 Permit: AC 50-168735 AC 50-168734	

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

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

3. Article Addressed to: Mr. R. H. Henson United Technologies Corp. Post Office Box 109610 West Palm Beach, FL 33410-9610	4. Article Number P 938 762 671
	Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
Always obtain signature of addressee or agent and DATE DELIVERED.	
5. Signature - Address X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent X 	
7. Date of Delivery SEP - 6 1989	



# Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachmann, Secretary

John Shearer, Assistant Secretary

September 5, 1989

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. R. H. Henson  
United Technologies Corp. - Sikorsky Aircraft  
Post Office Box 109610  
West Palm Beach, Florida 33410-9610

Dear Mr. Henson:

Re: Completeness Review for AC 50-168735 and AC 50-168734,  
Applications to Construct Air Pollution Sources

The Department has received your applications to modify spray booths PS-14-SIK and PSB-1-RTF at your facility in West Palm Beach. We need more information to process this application. Please complete the application by supplying the information requested below:

File No. AC 50-168735 (spray booth PS-14-SIK)

Based on our records of this source, there is a discrepancy between the existing information and your new proposal. Specifically, the following:

On your correspondence, dated May 5, 1986, it was determined that painting of fuselage panels, including coweling, doors, drive shaft covers, and panels, are exempt from RACT limitations. Further, it was also determined that "rescue hoists and hi-intensity search light will be subject to RACT."

The proposed application does not address the painting of rescue hoist and hi-intensity search lights. Will nonexempt parts be coated in this spray booth? If so, please submit coating usage and emission calculations for this operation. Be advised that RACT regulations could apply to this operation (coating of rescue hoist and hi-intensity light).

Mr. R. H. Henson  
Page Two  
September 5, 1989

File No. AC 50-168734 (Spray Booth PSB-1-RTF)

Are 240 subassemblies/year (1 ft. diameter x 1 ft. long) and 12 major assemblies/year (4 ft. diameter x 26 ft. long) still to be painted at this spray booth? Attachment B list only 4 test object/month and 16 small test object/month. Please specify all objects to be coated in this booth.

General

Submit material safety data sheet (MSDS) for each type of coating use.

List all construction permits with their permitted emissions that have been issued for your company in the last five years.

If there are any questions, please call Teresa M. Heron at (904)488-1344 or write to me at the above address.

Sincerely,



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

CHF/TH/t

cc: I. Goldman, SE District  
Howard S. Levine, P.E.  
*J. Starnes PBCHD*  
*J. Heron*



P.O. Box 109600  
West Palm Beach, FL 33410-9600  
(305) 840-2000

RECEIVED  
DER - MAIL ROOM

1989 AUG 11 AM 10:05

Government Products Division

August 8, 1989

RECEIVED

AUG 11 1989

DER - BAQM

Mr. C. H. Fancy  
Florida Department of Environmental Regulation  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Re: Permit Applications for Modifications to Permit  
AO 50-12681 and AO 50-147622

Dear Mr. Fancy:

In accordance with your 5-4-89 letter, enclosed are four (4) copies of DER form 17-1.202(1) "Application to Operate/Construct Air Pollution Sources" for modification of the above referenced permits. We have also included the required check (no. 316647) for \$400.00 made payable to the Department of Environmental Regulation to cover both permit applications.

Should you have any questions, please contact Lisa Hill at (407)796-5655.

Sincerely,

W. J. Dail  
Utilities Operations/Environmental Affairs

cc: M. Armstrong - w/attachment  
S. Brattebo - w/o attachment  
I. Goldman - DER - w/attachment  
R. Henson - w/o attachment  
L. Hill - w/attachment  
S. Johnson - w/attachment  
J. Stormer - PBCHD - w/attachment  
File - Air Pollution - w/attachment

(1189j)



OPERATING ACCOUNT



THE CHASE MANHATTAN BANK, N.A.  
SYRACUSE, NEW YORK

Government Engine Business  
Box 109600, West Palm Beach, Florida 33410-9600  
Phone (407) 796-2000

IN FULL SETTLEMENT OF ITEMS  
LISTED ON ACCOMPANYING STATEMENT

PAY: FOUR HUNDRED AND NO/100 DOLLARS \*\*\*\*\*

DATE  
07/20/89

\*\*\*\*\*400.00

TO  
THE  
ORDER  
OF

FLORIDA DEPT. OF ENVIRONMENTAL  
REGULATION

*F. S. Sube*

AUTHORIZED SIGNATURE

*R. S. Miller*

AUTHORIZED COUNTER SIGNATURE

Dear Mr. Fancy:

In accordance with your 5-4-89 letter, enclosed are four (4) copies of DER form 17-1.202(1) "Application to Operate/Construct Air Pollution Sources" for modification of the above referenced permits. We have also included the required check (no. 316647) for \$400.00 made payable to the Department of Environmental Regulation to cover both permit applications.

Should you have any questions, please contact Lisa Hill at (407)796-5655.

Sincerely,

*W. J. Dail*

W. J. Dail  
Utilities Operations/Environmental Affairs

cc: Mr. Armstrong - w/attachment  
S. Brattebo - w/o attachment  
I. Goldman - DER - w/attachment  
R. Henson - w/o attachment  
L. Hill - w/attachment  
S. Johnson - w/attachment  
J. Stormer - PBCHD - w/attachment  
File - Air Pollution - w/attachment

(1189j)

1031

RECEIVED

AC 50-168734

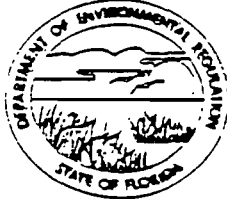
#200pd.  
8-11-89  
Rept. #117648

AUG 11 1989

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION  
DER-BAQM

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



BOB GRAHAM  
GOVERNOR

VICTORIA J. TSCHINKEL  
SECRETARY

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: One (1) Paint Spray Booth [ ] New<sup>1</sup> [X] Existing<sup>1</sup>

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

COMPANY NAME: United Technologies Corp. - Pratt & Whitney COUNTY: Palm Beach

Identify the specific emission point source(s) addressed in this application (i.e. Line  
Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) PSB-1-RTF

SOURCE LOCATION: Street SR 710 Beeline Highway City 20 Miles NW of West Palm Beach

UTM: East 17,565.6 North 2978.5

Latitude 26 ° 55 ' 51 "N Longitude 80 ° 20 ' 41 "W

APPLICANT NAME AND TITLE: United Technologies Corp. - Pratt & Whitney

APPLICANT ADDRESS: P.O. Box 109600, West Palm Beach, Fl. 33410-9600

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

4. APPLICANT

United Technologies Corp.

I am the undersigned owner or authorized representative\* of Pratt & Whitney

I certify that the statements made in this application for a modification to an operating permit are true, correct and complete to the best of my knowledge and belief. Further, permit 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: R. H. Henson

R. H. Henson, Manager - Plant Engineering  
Name and Title (Please Type)

Date: 8/3/89 Telephone No. (407) 796-5655

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

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

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

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



Signed Howard S. Levine

Howard S. Levine

Name (Please Type)

United Technologies Corp. - Pratt & Whitney

Company Name (Please Type)

M/S 717-29, P.O. Box 109600, W.P.B., FL. 33410-9600

Mailing Address (Please Type)

Florida Registration No. 27645 Date: 8/3/89 Telephone No. (407)796-5331

**SECTION II: GENERAL PROJECT INFORMATION**

4. 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.

See Attachment A

3. 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.

AC 50-130043

AO 50-147622

E. Requested permitted equipment operating time: hrs/day 8; days/wk 5; wks/yr 52;  
if power plant, hrs/yr \_\_\_\_\_; if seasonal, describe: \_\_\_\_\_

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? Yes  
a. If yes, has "offset" been applied? No  
b. If yes, has "Lowest Achievable Emission Rate" been applied? No  
c. If yes, list non-attainment pollutants. ozone

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.

Per Chapter 17-2.650(C)(2), Exceptions to Reasonable Available Control  
Technology (RACT) are "sources used exclusively for chemical or physical  
analysis, or for the determination of product quality and commercial  
acceptance provided the operation of the sources is not an integral part  
of any production process and the emissions from the source do not  
exceed 800 pounds (363 kilograms) in any one calendar month." PSB-1-RTF  
qualifies for this exception.

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

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

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

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

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

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

See Attachment B

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission Rate per Rule 17-2	Allowable <sup>3</sup> Emission lbs/hr	Potential <sup>4</sup> Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	

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

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

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

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

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

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
DRY ANDREA FILTER (SEE ATTACHMENT C)	PARTICULATE MATTER	94-96%		MANUFACTURER GUARANTEE

E. Fuels N/A

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

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

Fuel Analysis:

Percent Sulfur: \_\_\_\_\_ Percent Ash: \_\_\_\_\_

Density: \_\_\_\_\_ lbs/gal Typical Percent Nitrogen: \_\_\_\_\_

Heat Capacity: \_\_\_\_\_ BTU/lb \_\_\_\_\_ BTU/gal

Other Fuel Contaminants (which may cause air pollution): \_\_\_\_\_

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

Annual Average \_\_\_\_\_ Maximum \_\_\_\_\_

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

Solid waste - rags

Liquid waste - surface coatings, lacquer thinner, acetone, toluene, MEK.

Liquid waste and saturated rags are collected into controlled containers which are

then managed relative to onsite storage and offsite disposal as a hazardous waste  
(in accordance with P&W's hazardous waste operating permit #H030-124528).

Unsat. rags are disposed of as a non-hazardous waste.

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

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

SECTION IV: INCINERATOR INFORMATION N/A

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated							
Uncontrolled (lbs/hr)							

Description of Waste \_\_\_\_\_

Total Weight Incinerated (lbs/hr) \_\_\_\_\_ Design Capacity (lbs/hr) \_\_\_\_\_

Approximate Number of Hours of Operation per day \_\_\_\_\_ day/wk \_\_\_\_\_ wks/yr. \_\_\_\_\_

Manufacturer \_\_\_\_\_

Date Constructed \_\_\_\_\_ Model No. \_\_\_\_\_

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

Stack Height: \_\_\_\_\_ ft. Stack Diameter: \_\_\_\_\_ Stack Temp. \_\_\_\_\_

Gas Flow Rate: \_\_\_\_\_ ACFM \_\_\_\_\_ DSCFM\* Velocity: \_\_\_\_\_ FPS

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

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

Brief description of operating characteristics of control devices: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

#### SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

1. Total process input rate and product weight -- show derivation [Rule 17-2.100(127)]  
Not applicable
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. See Attachment B
3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).  
See Attachment B
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.) See Attachment C
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). See Sec. III-D
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. See Attachment D
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).  
See Attachment E
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.  
See Attachment F



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**

(Not Applicable)

- 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:<sup>1</sup>

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy <sup>2</sup>

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

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

2.

a. Control Device:

b. Operating Principles:

c. Efficiency:<sup>1</sup>

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

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

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

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

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

j. Applicability to manufacturing processes:

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

3.

a. Control Device:

b. Operating Principles:

c. Efficiency:<sup>1</sup>

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

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

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

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

4.

a. Control Device:

b. Operating Principles:

c. Efficiency:<sup>1</sup>

d. Capital Costs:

e. Useful Life:

f. Operating Cost:

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

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

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

F. Describe the control technology selected:

1. Control Device:

2. Efficiency:<sup>1</sup>

3. Capital Cost:

4. Useful Life:

5. Operating Cost:

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

7. Maintenance Cost:

8. Manufacturer:

9. Other locations where employed on similar processes:

a. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

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

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

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:<sup>1</sup>

Contaminant

Rate or Concentration


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

b. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:<sup>1</sup>

Contaminant

Rate or Concentration


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

10. Reason for selection and description of systems:

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

**SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION**

(Not Applicable)

**A. Company Monitored Data**

1. \_\_\_\_\_ no. sites \_\_\_\_\_ TSP \_\_\_\_\_ ( ) SO<sub>2</sub> \_\_\_\_\_ Wind spd/dir

Period of Monitoring \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ to \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
month day year month day year

Other data recorded \_\_\_\_\_

Attach all data or statistical summaries to this application.

Specify bubbler (B) or continuous (C).



## ATTACHMENT A

This application is for modification of the Remote Test Facility paint spray booth PSB-1-RTF air pollution operating permit #AO 50-147622.

The booth is used for the application of conductive coatings to electromagnetic susceptibility/compatibility test objects (which are classified material). The test objects are models of jet engine parts which are composed of any combination of fiberglass, wood, aluminum, plastic and graphite. They are coated with a wide range of coatings including but not limited to lacquer primers, polyester primers, polyurethane coatings, silver and nickel paints. Thinners such as acetone, toluene, MEK and lacquer thinner are used to thin the coatings and for cleaning the paint equipment such as spray guns, spray pots, fluid hoses etc.

The operation of the paint spray booth is not part of a production process. Application of the coatings on the test objects is a part of research and development (i.e. experimental) of jet engine technology and therefore, (based on our interpretation) is exempt from Reasonable Available Control Technology (RACT) in accordance with FAC Chapter 17-2.650(1)(c)(2) (which exempts "sources from used exclusively for chemical or physical analysis or for the determination of product quality or commercial acceptance provided the operation of the source is not an integral part of any production process and the emissions from the source do not exceed 800 lbs. in any one calendar month").

Emission estimates (see attachment B) were made using a worst case estimate to prove that the emissions from the booth do not exceed 800 lbs/month. Because the booth is being used for experimental work, application of the coatings on a daily or hourly basis is random. Therefore, it is requested that the booth be permitted for 800 lbs/month and proof of compliance for the modified permit be demonstrated by monthly VOC calculations only.

The booth is currently permitted for 2.84 TPY. The calculated maximum monthly VOC calculations (see attachment B) is 280 lbs. Based on this, the maximum yearly VOC emission will equal 1.68 tons (280 lbs/month x 12 months) which is less than the current permit limit of 2.84, therefore, it is requested that the permit yearly emission limit remain 2.84 TPY.

Attachment B

Monthly Maximum Emission Estimates for PSB-1-RTF

The booth is used a maximum of 20 days/month

Assume 4 large test objects are painted per month in the booth, each requiring 1 day.  
Each object requires:

- 4 gallons of coating
- 1 gallon of thinner to thin the coating
- 1 gallon of thinner X 20%\* to clean up the equipment

- 4 gal/test object X 4 test objects/month = 16 gal/month of coating
- 1 gal/test object X 4 test objects/month = 4 gal/month of thinner
- 1 gal/test object X 0.20 X 4 test objects/month = 0.8 gal/month of thinner for cleanup

During the remainder of the month (16 days) the following maximum amounts are used per day to coat smaller test objects:

- 1 gallon of coating
- 1/4 gallon of thinner to thin the coating
- 1/4 gallon of thinner X 20%\* to clean up the equipment

- 1 gal/test object X 16 test objects/month = 16 gal/month of coating
- 1/4 gal/test object X 16 test objects/month = 4 gal/month of thinner
- 1/4 gal/test object X 0.20 X 16 test/month = 0.8 gal/month of thinner for cleanup

Total gallon usage per month:

Coating:

16 gal/month for large test objects + 16 gal/month for smaller test objects = 32 gal/month.

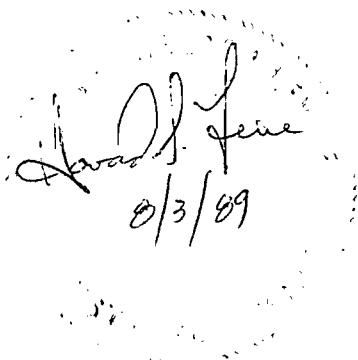
Thinner used to thin the coating:

4 gal/month for large test objects + 4 gal/month for smaller test objects = 8 gal/month.

Thinner used to clean the equipment:

0.8 gal/month for large test objects + 0.8 gal/month for smaller test objects = 1.6 gal/month.

\* 80% of the thinner used to clean the equipment is recovered.



Handwritten signature: David J. Fine  
Date: 8/3/89

ATTACHMENT B (CONTINUED)

VOC Emissions - lacquer primer & toluene were used to calculate the surface coating & thinner VOC emissions respectively, because of their high VOC content and density (to show a worst case).

Lacquer Primer:

65.7% volatile    Specific gravity - 1.20

32 gal/month X .657 X 1.20 X 8.33 lb/gal = 210.2 lbs/month

Toluene:

100% Volatile    specific gravity = 0.87

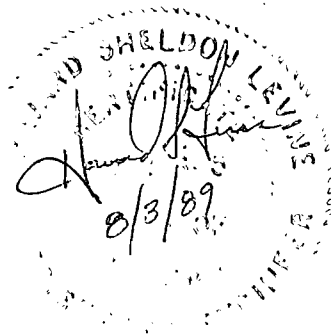
8 gal/month X 0.87 X 8.33 lb/gal = 58.0 lb/month

1.6 gal/month X 0.87 X 8.33 lb/gal = 11.6 lb/month

Total VOC emissions = 210.2 lb/month + 58.0 lb/month + 11.6 lb/month = 279.8 lb/month

279.8 lbs/month < 800 lbs/month, therefore RACT does not apply.

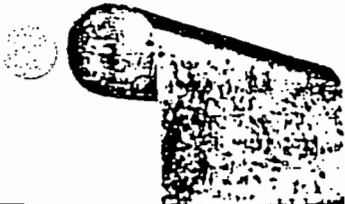
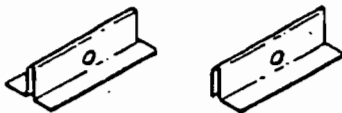
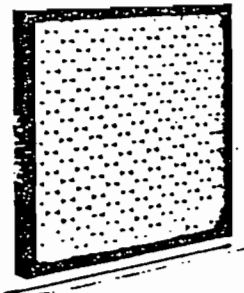
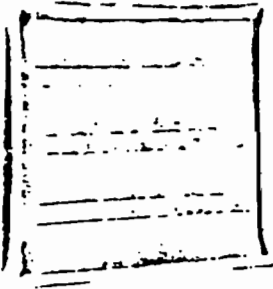
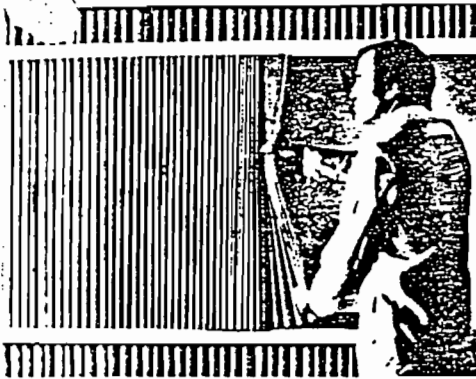
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**BINKS**

**SUPPLY AIR AND EXHAUST AIR FILTERS  
FLAME RETARDANT PAPER**



**Andreae Exhaust Air Filter**

The Binks Andreae filter provides a low resistance filtering system for all dry spray booths. A staggered hole pattern in the filter forces the spray-laden air to change direction 4 times in its passage through the system for extremely efficient separation of paint particles and exhaust air. Andreae filters outlast any other dry filter three to five times.

The media is made of special non-fire supporting paper formed into double accordion folds. It is collapsible for convenient storage.

Andreae Filters have a Class 2 listing by Underwriters' Laboratories and are Factory Mutual approved.

29-359, one pack, 3' high x 30' wide, shpg. wt. 20 lbs.

29-360, 6 packs, 3' high x 30' wide, shpg. wt. 120 lbs.

29-813, for Exhaust-O-Bench, one pack, 18" high x 30" wide, shpg. wt. 10 lbs.

**Paint Arrestor Exhaust Air Filter**

Binks Paint Arrestor filter is a specially treated fiber designed to remove paint particles efficiently from spray booth exhaust air. Class 2 listed by Underwriters' Laboratories.

Easily installed and removed, the filters are mounted two per frame.

29-102\* 20" x 20" x 3" Filter Frame. Shpg. wt. 4 lbs.

29-106 20" x 25" x 3" Filter Frame. Shpg. wt. 6 lbs.

29-861† Filter Grid (single, pair not needed) for 20" x 20" x 3" filter frame. Holds two Model 29-893 Filters. Shpg. wt. 1 lb.

29-894† Filter Grid (single, pair not needed) for 20" x 25" x 3" frame. Shpg. wt. 2 lbs.

29-862† Filter Grid for 10" x 20" x 3" filter frame. Holds one Model 29-893 Filter (folded). Shpg. wt. 1 lb.

29-893 20" x 20" x 1" Filter Pads, carton of 36. Shpg. wt. 25 lbs.

29-897 20" x 25" x 1" Filter Pads, carton of 36. Shpg. wt. 30 lbs.

\*Also usable for framing spun glass air intake filters, Model 29-105.

†See illustration page 22.

**Tight-seal Supply Air Filter**

For a cleaner paint job; to be used in filter doors or in the air supply plenum attached to the booth. Filter has a special tacky surface that traps and holds dust. Class 2 listed by Underwriters' Laboratories.

Each filter is one inch over size for better sealing and has internal wire reinforcing frame. Size 20" x 20" x 1".

29-486, one carton of 20 filters. Shpg. wt. 2 lbs.

**Spun Glass Supply Air Filter**

For use in spray booth or room filter doors. Provides economical, highly efficient filtering, and promotes uniform distribution of air over face of booth. Class 2 listed by Underwriters' Laboratories.

29-105 20" x 20" x 2" Filter Pads, carton of 12. Shpg. wt. 2 lbs.

29-286 Snap-in Grids (pair) for filters.

**Retaining Clips for Supply Air Filters**

Use two "single" clips per cell. Add one "double" clip for each additional "horizontally adjacent" filter cell.

27-1982 Single Clip      27-1983 Double Clip

**Flame Retardant Paper (not shown)**

Binks Flame-A-Guard is a highly absorbent, flame resistant, high wet strength paper (90 lb. basis weight) suitable as a protective floor, wall, and equipment cover while spraying.

29-834 36" x 300' roll. Shpg. wt. 30 lbs.

29-835 43½" x 300' roll. Shpg. wt. 36 lbs.

29-836 60" x 300' roll. Shpg. wt. 50 lbs.

29-898 72" x 300' roll. Shpg. wt. 64 lbs.

**Dispo Cloth Exhaust Air Filter**

The Dispo filter is a flame-proofed, non-woven cloth of high paint loading capacity packaged especially for use in Binks Dispo spray booths (see pages 16 and 17). Cloth widths 20", 30", and 60" are supplied in 400 ft. rolls. Order from Dispo Spray Booths, Bartlett, Ill. 60103.



COMBINATION TRUCK and AUTO SPRAY BOOTHS

General Description of Combination Truck and Automotive Package Spray Booths

Except for booth dimensions and exhaust fan specification (see below), Combination Auto and Truck Spray Booths have the same features, construction details, and performance characteristics of the Truck Spray Booths described on pages 38 and 39.

Double Mounting Ring Exhaust Fan †

Model No. 30-4312

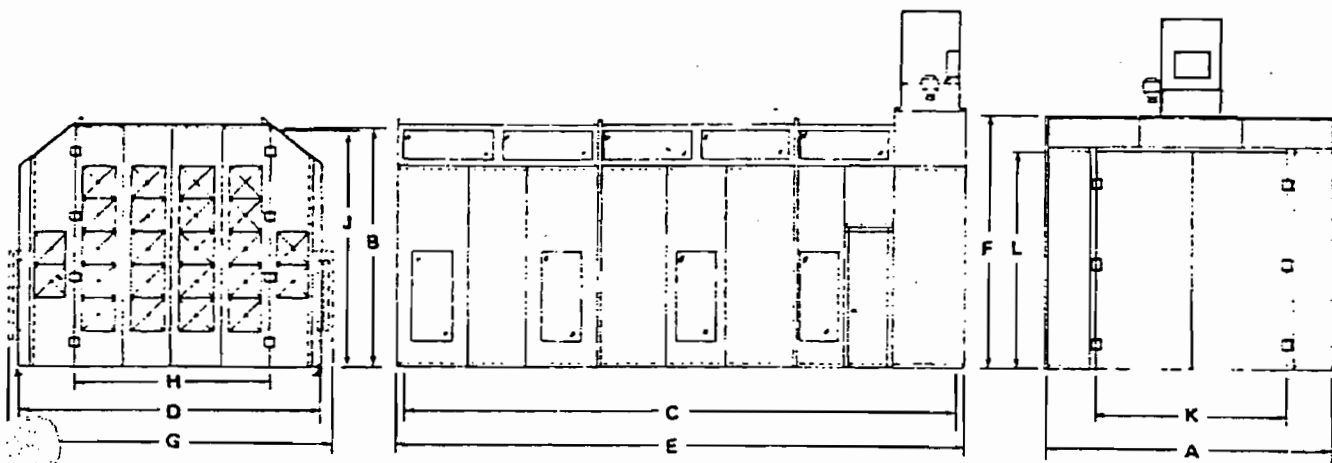
Capacity: 16,400 SCFM\*, 100 FPM ★

Description: 34" dia., with 5 H.P. open-type, ball bearing motor, 230/460 V., 60 Hz., 3 Ph., (see table footnote 2 below).

† Other capacity fans optional.

\* Air flow at 1/2" w.c. rated static pressure with clean filters and 25 ft. of exhaust duct length.

★ Air velocity through empty booth with clean filters and 25 ft. max. exhaust duct length.



(Booth clearances, all around, 3'-0" recommended)

100 FPM Min. Face Velocity at 1/2" w.c. static press. with empty booth, clean filters, 25 ft. max. exhaust duct length.

Model Numbers ♦ Address Filters	Paint Arrestor Filters	Work Dimensions			Overall Dimensions				Nominal Door Opening (see note below)			Quantity		Shpg. Wt. Lbs.	
		A	B	C	D	F	E	G	Front J	Back H	Back L	K	Windows		Lights
<b>Solid Back</b>															
CA-528-T	CF-528-T														
CA-528-T-LO	CF-528-T-LO	14'-0"	12'-0"	28'-4"	15'-1"	12'-8"	28'-6"	15'-6"	12'-0"	9'-8"	—	—	18	18	6100
CA-528-T-LH	CF-528-T-LH												18	18	7000
<b>Drive Thru</b>															
CA-628-T	CF-628-T														
CA-628-T-LO	CF-628-T-LO	14'-0"	12'-0"	28'-4"	15'-1"	12'-8"	28'-6"	15'-6"	12'-0"	9'-8"	10'-10"	9'-4"	18	18	7700
CA-628-T-LH	CF-628-T-LH												18	18	8100

♦ Model number suffixes LO and LH indicate open-type, Model 29-97, and Class I, Div. 2 hazard locations type, Model 29-900, fluorescent fixtures respectively. See page 55.

- Fluorescent tubes not furnished. Purchase locally.
- Explosion proof or totally enclosed motor, and motor starter, available at extra cost. See pages 50 and 51 for exhaust fan specifications.
- Top exhaust standard. Back exhaust optional. Specify on order. Consult Binks representative if more than 25 ft. of exhaust duct are required.

4. Safety monitoring and control devices, as well as complete automatic systems, available at extra cost. Consult local codes and your Binks representative for the equipment most appropriate to your operation.

5. Observation windows, clear wire-glass, 24" x 24", and additional access doors available at extra cost. Specify quantity and location on order.

6. Special length booths available. Please consult your Binks representative.

REALLY CLEAN Version

Solid Back Models may also be obtained in the "Really Clean" version (see pages 34 and 35). Please consult your Binks representative.

Note: For bifold doors, subtract 1'-6" for "pass-thru" width clearance.

For width of one-piece doors, and for all listed height openings, subtract 2" for "pass-thru" clearance.

**BINKS MANUFACTURING COMPANY**

2191 S. PLATTE RIVER DRIVE, DENVER, CO 80223

PHONE: 303/936-7226

TELEX: 45607



**BEST AVAILABLE COPY**

ICES IN ALL PRINCIPAL CITIES

**QUOTATION**

Stearns Catalytic

PO Box 5888

Denver, Colorado 80217

DATE July 9, 1986

OUR NO. Denver 86-39

YOUR NO.

ATTENTION Mr. Don Biniasz

**DESCRIPTION**

**PRICE**

**TOTAL**

1 - 29-845, 6'0" length, 34" diameter spiral exhaust stack with access door

1 - 29-846, 6'0" length, 34" diameter plain spiral exhaust stack

1 - 29-35, 34" diameter pitched type roof flange

1 - 29-95, 34" diameter combination weather hood and automatic damper with attached connector ring.

TOTAL NET PRICE, FOB OUR FACTORY, FRANKLIN PARK, ILLINOIS . . .

\$15,742.21

Approximate shipping weight: 9,200 Pounds

Delivery: Approximately 6 to 8 weeks from receipt of order or approved prints.

NOTE: The price quoted above is firm for 60 days from date of quotation.

ATTACHMENT C (CON'T)

**BINKS MANUFACTURING COMPANY**

2191 S. PLATTE RIVER DRIVE, DENVER, CO 80223  
 PHONE: 303/936-7226  
 FAX: 45607



OFFICES IN ALL PRINCIPAL CITIES

**QUOTATION**

Stearns Catalytic

PO Box 5888

Denver, Colorado 80217

DATE July 9, 1986

OUR NO. Denver 86-39

YOUR NO.

ATTENTION Mr. Don Biniasz

DESCRIPTION

PRICE

TOTAL

Per your request, we are pleased to submit the following quotation for your consideration:

ONE SPECIAL BINKS CA-528-T-LH DRY ANDREAEE FILTER TYPE COMBINATION TRUCK AND AUTOMOBILE SPRAY BOOTH

Inside Booth Dimensions:            14' 0" . . . . . Wide  
     12' 0" . . . . . High  
     32' 6" . . . . . Depth Overall

Booth will be constructed of 18 gauge galvanized unpainted panels, each panel formed with companion flanges punched on 6" centers for bolted assembly. The booth will be furnished with rows of Andreae filters, each 3'0" high. The media is made of special non-fire supporting paper and is formed into double accordian type folds with staggered holes to provide a highly efficient filter. A replacement set of filters will also be furnished.

The front of the booth will have (2) folding filter doors with a clearance of 9'8" wide x 12'0" high. Doors will be provided with (20) 20"x20"x3" filter cells, each cell containing (1) 20"x20"x1" tight seal air filter. At each side of the doors there will be a panel 2'2" wide x 12'0" high, each panel to have (2) 20"x20"x3" filter cells, each cell containing (1) 20"x20"x1" tight seal air filter. A 2'6" wide x 6'9" high access door will be provided for mounting on either side of the booth.

Booth will be furnished with a 290-551 draft gauge.

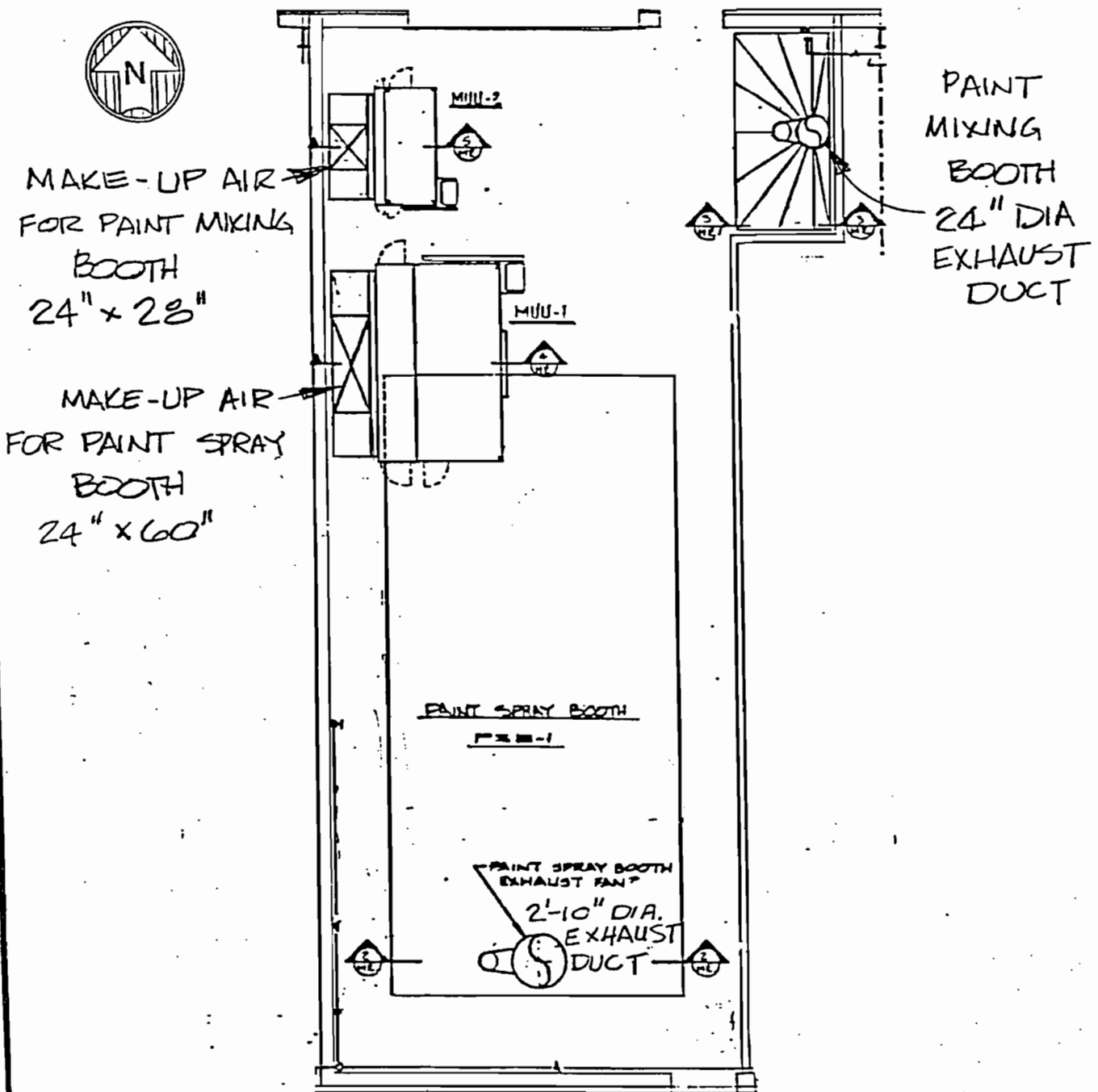
Booth to be arranged for top exhaust

- 1 - 30-4312, 34" diameter double ring exhaust fan
- 1 - 5 HP, Explosion Proof ball bearing motor, 230 volt, 60 cycle, 3 phase (Motor starter furnished by the customer)

Fan Capacity: 16,400 CFM @ 1/2" static pressure  
 Calculated Velocity: 100 FPM thru empty booth

- 20 - Inside access kits for light fixtures
- 20 - 29-1094, 4 tube, 40 watt, 120 volt, Class I, Division II, enclosed and gasketed fluorescent fixtures (less tubes)
- 10 - 29-450, 16"x54" R.S. Misco wire glass windows (Light switches furnished by the customer)

ATTACHMENT D



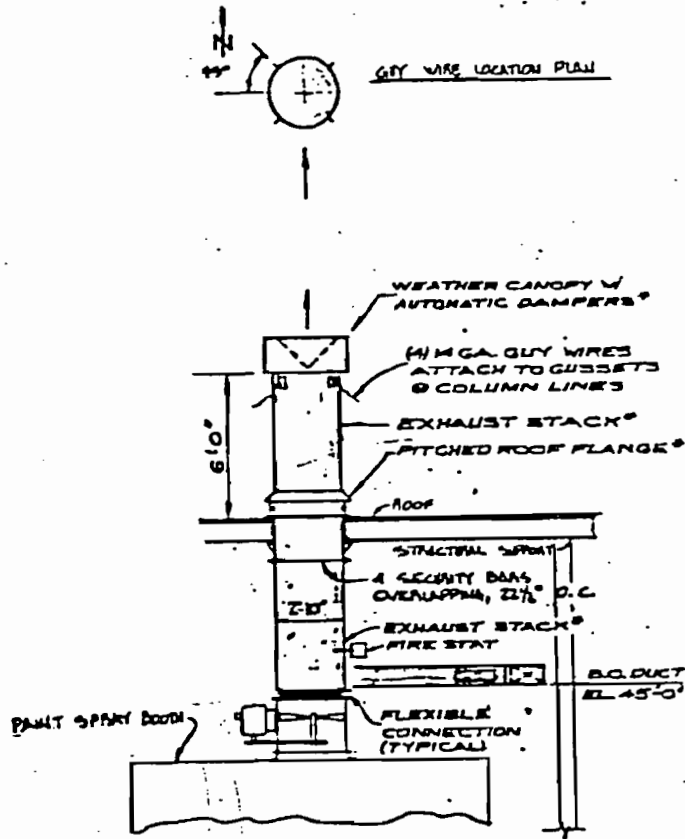
LET	ALTERATIONS	BY	APP'D	DATE
DRAWN BY	DATE	APPROVED BY		DATE
ENGINEER BY	DATE			

SCALE: NONE | 1" = 8'-0" | CHANGE: 281921 | THERE IS NO SUBSTITUTE FOR QUALITY

PSB-1-RTF & PAINT MIXING HOOD  
EMISSION LOCATIONS

DRAWING NO.  
AX-77607  
SHT 1 OF 3

ATTACHMENT D  
(CON'T)



② PAINT SPRAY BOOTH

\* INDICATES ITEMS FURNISHED BY PAINT SPRAY BOOTH MANUFACTURER. INSTALLED UNDER THIS CONTRACT



LET.	ALTERATIONS	BY	APPD	DATE	
DRAWN BY	R	DATE	7.29.86	APPROVED BY	DATE
CHECKED BY		DATE			

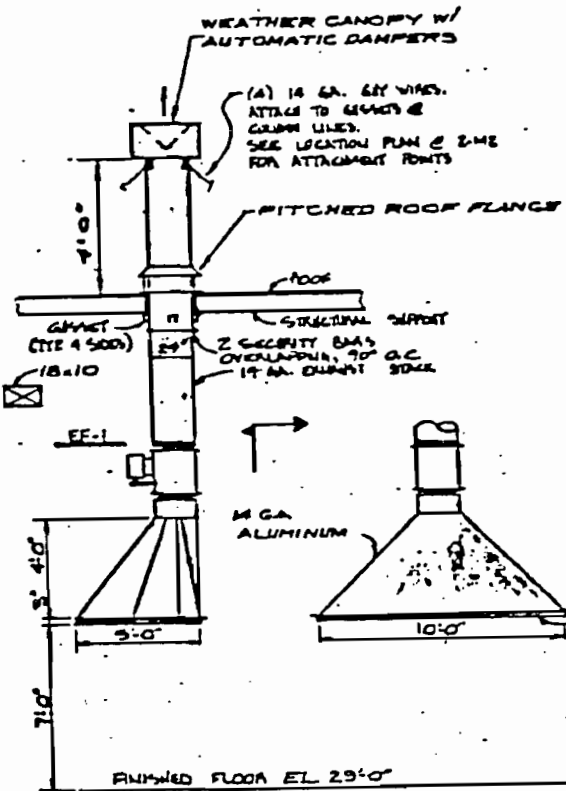
SCALE NONE    PROJ C8119    DRAWING C811921

THERE IS NO SUBSTITUTE FOR QUALITY

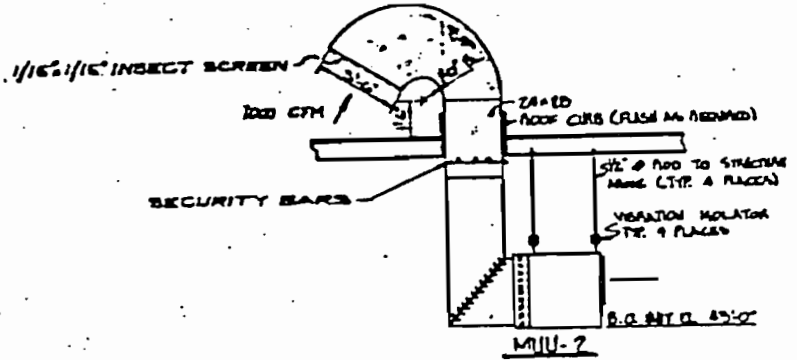
PSB-1-RTF & PAINT MIXING HOOD  
DETAILS

DRAWING NO.  
AX-77607  
SHEET 2 OF 3

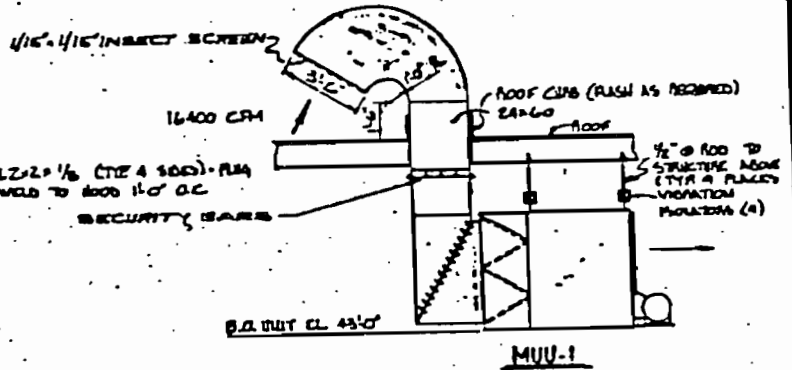
ATTACHMENT D  
(CON'T)



① PAINT MIXING HOOD



② MAKE-UP AIR FOR PAINT MIXING BOOTH



③ MAKE-UP AIR FOR PAINT SPRAY BOOTH



LET	ALTERATIONS	BY	APPD	DATE
DESIGN BY	DATE	APPROVED BY		DATE
CHECKED BY	DATE			

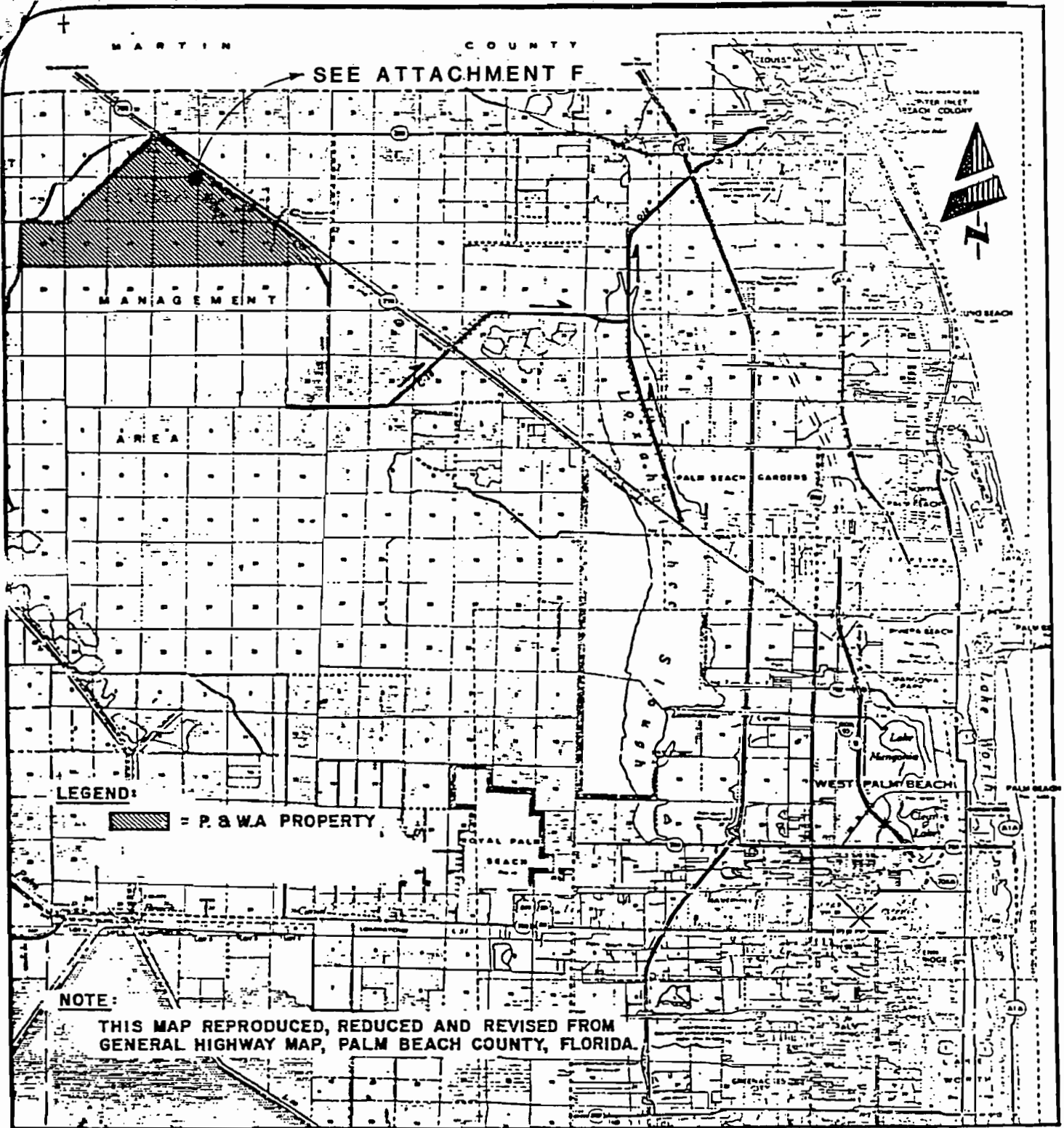
SCALE NONE    PART C8119    CHANGE C8119Z1

THERE IS NO SUBSTITUTE FOR QUALITY

PSE-1-RTF & PAINT MIXING HOOD  
DETAILS

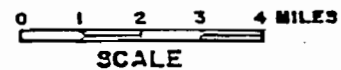
DRAWING NO.  
AX-77607

ATTACHMENT E



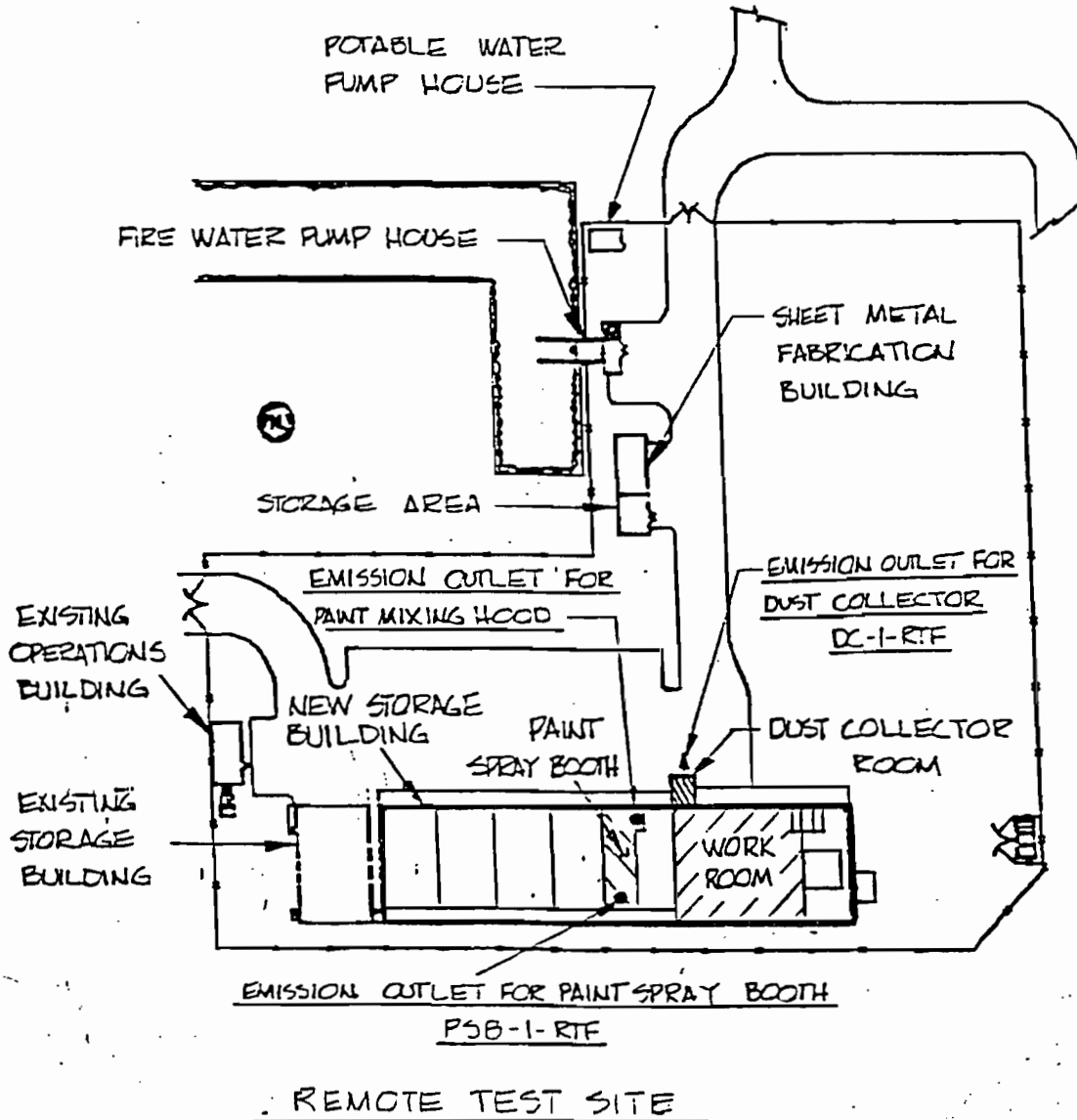
PL-772 A  
7/18/81

SITE LOCATION MAP  
FOR PRATT & WHITNEY AIRCRAFT PROPERTY  
PALM BEACH COUNTY, FLORIDA





ATTACHMENT F



LIST	ALTERATIONS	BY	APPD	DATE	
DESIGNED BY	J	DATE	9-26-86	APPROVED BY	DATE
ENGINEER BY		DATE			

SCALE NONE    PROJECT C8119    CHARGE C811921

THERE IS NO SUBSTITUTE FOR QUALITY

EMISSION OUTLETS  
LOCATION MAP

DRAWING NO.  
AX-77609

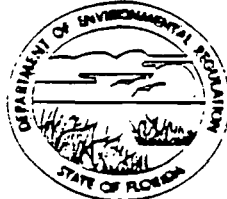
SHT 1 OF 1

AC 30-168735

\$300 pd.  
8-11-89  
Receipt # 117644

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION  
**RECEIVED**

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



AUG 11 1989 VICTORIA J. TSCHINKEL  
SECRETARY

BOB GRAHAM  
GOVERNOR

DER-BAQM

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: One Paint Spray Booth [ ] New<sup>1</sup> [X] Existing<sup>1</sup>

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

COMPANY NAME: United Technologies Corp. - Sikorsky Aircraft COUNTY: Palm Beach

Identify the specific emission point source(s) addressed in this application (i.e. Line

Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) PS-14-SIK

SOURCE LOCATION: Street S.R. 710 - Beeline Hwy City 20 miles N.W. of W.P.B.

UTM: East 17,567.5 KM North 2,975 KM

Latitude 26° 54' 19" N Longitude 81° 19' 08" W

APPLICANT NAME AND TITLE: United Technologies Corp. - Sikorsky Aircraft

APPLICANT ADDRESS: P.O. Box 109610 West Palm Beach, FL. 33410-9610

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative of United Tech Corp. Sikorsky Air.

I certify that the statements made in this application for a modification to an operating 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: R H Henson

R H Henson - Plant Engineering  
Name and Title (Please Type)

Date: 8/3/89 Telephone No. (407) 796-5461

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

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

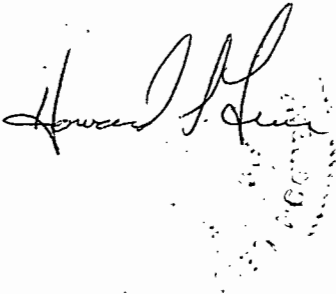
See Florida Administrative Code Rule 17-2.100(57) and (104)

DER Form 17-1.202(1)

Effective October 31, 1982

Page 1 of 12

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 Howard S. Levine

Howard S. Levine  
Name (Please Type)

United Technologies Corp. - Pratt & Whitney  
Company Name (Please Type)

Mail Loc. 717-29

P.O. Box 109600 W.P.B., FL. 33410-9600  
Mailing Address (Please Type)

Florida Registration No. 27645 Date: 8/3/89 Telephone No. 796-5331

**SECTION II: GENERAL PROJECT INFORMATION**

1. 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.

See Attachment A

3. 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.

AC 50-113559  
AO 50-126581

E. Requested permitted equipment operating time: hrs/day 16; days/wk 6; wks/yr 52;  
if power plant, hrs/yr \_\_\_\_\_; if seasonal, describe: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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? Yes  
a. If yes, has "offset" been applied? No  
b. If yes, has "Lowest Achievable Emission Rate" been applied? No  
c. If yes, list non-attainment pollutants. Ozone

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? Yes

a. If yes, for what pollutants? Ozone

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.

See Attachment B

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

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

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

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

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

2. Product Weight (lbs/hr): N/A

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

See Attachment C

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission Rate per Rule 17-2	Allowable Emission <sup>3</sup> lbs/hr	Potential <sup>4</sup> Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	

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

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

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

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

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

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Andrea Exhaust	Particulate	94-96%		Manufacturer Guarantee
Air Filter for Airborne Particulate #29-359	Matter			

E. Fuels N/A

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

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

Fuel Analysis:

Percent Sulfur: \_\_\_\_\_ Percent Ash: \_\_\_\_\_

Density: \_\_\_\_\_ lbs/gal Typical Percent Nitrogen: \_\_\_\_\_

Heat Capacity: \_\_\_\_\_ BTU/lb \_\_\_\_\_ BTU/gal

Other Fuel Contaminants (which may cause air pollution): \_\_\_\_\_

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

Annual Average \_\_\_\_\_ Maximum \_\_\_\_\_

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

Solid Waste - rags Liquid Waste - Surface coatings, lacquer thinner

Liquid waste and saturated rags are collected into controlled containers which are then managed relative to onsite storage and offsite disposal as a hazardous waste

(in accordance with P&W's hazardous waste operating permit #H030-124528)

Unsaturated rags are disposed of as a non hazardous waste.

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

Stack Height: \_\_\_\_\_ ft. Stack Diameter: \_\_\_\_\_ ft.

Gas Flow Rate: \_\_\_\_\_ ACFM \_\_\_\_\_ DSCFM Gas Exit Temperature: \_\_\_\_\_ °F.

Water Vapor Content: \_\_\_\_\_ % Velocity: \_\_\_\_\_ FPS

**SECTION IV: INCINERATOR INFORMATION**

Not Applicable

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated							
Uncontrolled (lbs/hr)							

Description of Waste \_\_\_\_\_

Total Weight Incinerated (lbs/hr) \_\_\_\_\_ Design Capacity (lbs/hr) \_\_\_\_\_

Approximate Number of Hours of Operation per day \_\_\_\_\_ day/wk \_\_\_\_\_ wks/yr. \_\_\_\_\_

Manufacturer \_\_\_\_\_

Date Constructed \_\_\_\_\_ Model No. \_\_\_\_\_

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

Stack Height: \_\_\_\_\_ ft. Stack Diameter: \_\_\_\_\_ Stack Temp. \_\_\_\_\_

Gas Flow Rate: \_\_\_\_\_ ACFM \_\_\_\_\_ DSCFM\* Velocity: \_\_\_\_\_ FPS

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

Type of pollution control devices:  Cyclone  Wet Scrubber  Afterburner  
 Other (specify) \_\_\_\_\_

Brief description of operating characteristics of control devices: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

**SECTION V: SUPPLEMENTAL REQUIREMENTS**

Please provide the following supplements where required for this application.

1. Total process input rate and product weight -- show derivation [Rule 17-2.100(127)]
2. <sup>Not Applicable</sup> 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. See Attachment C
3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test). See Attachment C
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.) See Attachment D
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). See Section III-D
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. See Attachment E
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). See Attachment F
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. See Attachment G



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 of Concentration

Contaminant	Rate of Concentration

10. Stack Parameters

- a. Height: ft.    b. Diameter: ft.
- c. Flow Rate: ACFM    d. Temperature: °F.
- e. Velocity: FPS

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

1.

- a. Control Device: b. Operating Principles:
- c. Efficiency:<sup>1</sup> d. Capital Cost:
- e. Useful Life: f. Operating Cost:
- g. Energy <sup>2</sup> h. Maintenance Cost:
- i. Availability of construction materials and process chemicals:
- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space, and operate within proposed levels:

2.

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

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

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

- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space, and operate within proposed levels:

3.

- a. Control Devices:
- b. Operating Principles:
- c. Efficiency:<sup>1</sup>
- d. Capital Cost:
- e. Useful Life:
- f. Operating Cost:
- g. Energy:<sup>2</sup>
- h. Maintenance Cost:
- i. Availability of construction materials and process chemicals:
- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space, and operate within proposed levels:

4.

- a. Control Devices:
- b. Operating Principles:
- c. Efficiency:<sup>1</sup>
- d. Capital Costs:
- e. Useful Life:
- f. Operating Cost:
- g. Energy:<sup>2</sup>
- h. Maintenance Cost:
- i. Availability of construction materials and process chemicals:
- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space, and operate within proposed levels:

F. Describe the control technology selected:

- 1. Control Device:
- 2. Efficiency:<sup>1</sup>
- 3. Capital Cost:
- 4. Useful Life:
- 5. Operating Cost:
- 6. Energy:<sup>2</sup>
- 7. Maintenance Cost:
- 8. Manufacturer:
- 9. Other locations where employed on similar processes:
- a. (1) Company:
- (2) Mailing Address:
- (3) City:
- (4) State:

<sup>1</sup> Explain method of determining efficiency.  
 Energy to be reported in units of electrical power - KWH design rate.

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:<sup>1</sup>

Contaminant	Rate or Concentration

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

b. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:<sup>1</sup>

Contaminant	Rate or Concentration

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

10. Reason for selection and description of systems:

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

SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION N/A

A. Company Monitored Data

1. \_\_\_\_\_ no. sites \_\_\_\_\_ TSP \_\_\_\_\_ ( ) SO<sub>2</sub> \_\_\_\_\_ Wind spd/dir \_\_\_\_\_  
 Period of Monitoring \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ to \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
month      day      year                      month      day      year

Other data recorded \_\_\_\_\_

Attach all data or statistical summaries to this application.

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 <sub>2</sub>	_____ 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 A

This application is for the modification of the Sikorsky paint spray booth PS-14-SIK currently permitted under permit #AO 50-126581.

The paint spray booth is a Binks Model PFA-8-7-T-LH floor type spray booth which is equipped with a 24" diameter 1 1/2 h.p. exhaust fan. A make up air unit with a 24" diameter 2 hp air supply fan supplies air to the booth. The air leaving the booth is filtered through Andrea's exhaust air filters and exhausted through a 24" diameter duct.

The booth is used to paint the interior surfaces of helicopters (credenzas, bulkheads, side trims, and fuel cell extender faces) which are made of a wood veneer. The surfaces are first sealed with a vinyl sanding sealer. They are then sanded and coated with a 94% combination of clear vinyl coating and 6% of an acid catalyst. The sealer and the vinyl coating are both thinned with lacquer thinner. The lacquer thinner is also used to clean the paint equipment. Gun cleaner is also used two or three times a year to thoroughly clean the guns, however, because of the minimal amount used (approximately 2 gallons/year), VOC emissions due to the cleaner have not been included.

The booth is currently permitted to emit 1.7 TPY. The projected daily and hourly usages are 29.2 lbs and 3.7 lbs respectively (see attachment C). Based on a projected daily usage of 29.2 lbs, the maximum yearly potential is 4.6 tons (29.2 lbs/day x 6 days/week x 52 weeks/year). However, since the booth does not operate daily, the actual yearly emissions are less than 1.7 tons/year (based on existing yearly usage data). Therefore, it is requested that the booth be permitted for 3.7 lbs/hr, 30 lbs/day and 1.7 TPY.

Attachment B

Although Reasonable Available Control Technology applies to this source, there is no emission limiting standard listed in FAC Chapter 17-2.650 (1) (f) for wood veneer surfaces. A maximum coating & thinner usage was used in the emission calculations (see attachment C) to determine the maximum daily & hourly VOC emissions.

Attachment C

Emission Calculations

Coating used is either a vinyl sanding sealer or a 94% combination of a clear vinyl coating & 6% acid catalyst.

VOC Content:

Vinyl sanding sealer = 5.8 lbs/gal\*

94% clear vinyl coating & 6% acid Catalyst = .94 x 4.75 lbs/gal\* + .06 x .75\* x 7.32 lb/gal\* = 4.79 lbs /gal

The lacquer thinner used for thinning the coatings and for cleaning the equipment has a VOC content of 6.57 lb/gal\*

Calculations:

Note: For calculation purposes, the VOC content of the vinyl sanding sealer (5.8 lb/gal) was used to obtain a maximum VOC emission.

Maximum usage per day:

3 gal of coating  
1.5 gal of thinner for thinning  
1.5 gal of thinner for cleaning\*\*

3 gal/day X 5.8 lbs VOC/gal + 1.5 gal/day X 6.57 lbs VOC/gal + 1.5 gal/day X 6.57 lbs VOC/gal X 0.20\*\* = 29.2 lbs VOC/day

Maximum usage per hour:

Booth is typically used 8 hrs/day therefore:

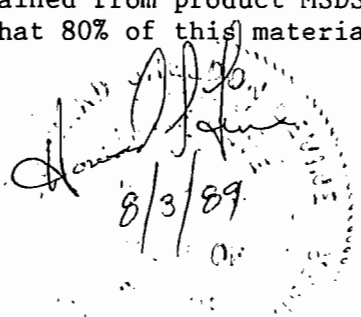
3 gal/day X day/8 hrs = 0.375 gal of coating  
1.5 gal/day X day/8 hrs = 0.188 gal of thinner for thinning  
1.5 gal/day X day/8 hrs = 0.188 gal of thinner for cleaning\*\*

0.375 gal/hr X 5.8 lbs of VOC/gal + 0.188 gal/hr X 6.57 lbs VOC/gal + 0.188 gal/hr X 6.57 lbs VOC/gal X 0.20\*\* = 3.7 lbs VOC /Hr

\* Information obtained from product MSDS sheets.

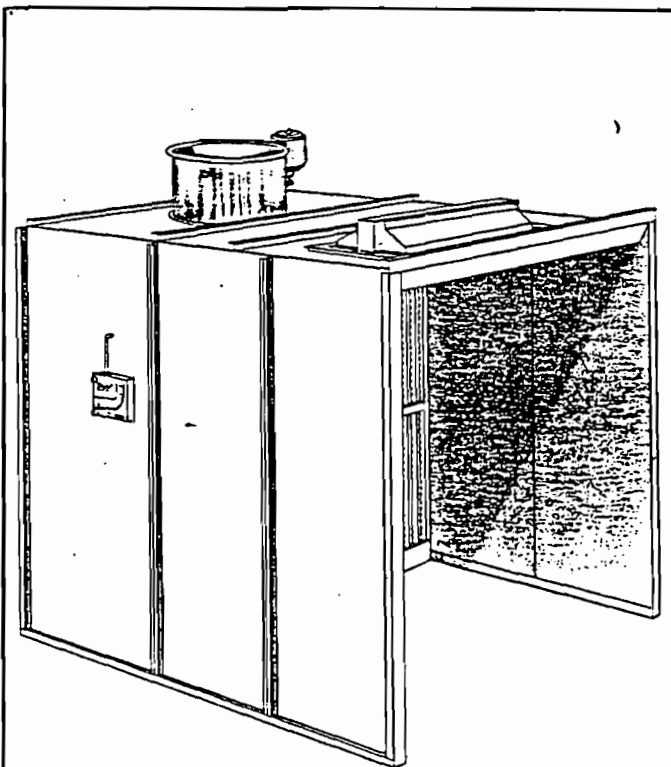
\*\* It is assumed that 80% of this material is recovered into drums.

Doc. 1229M



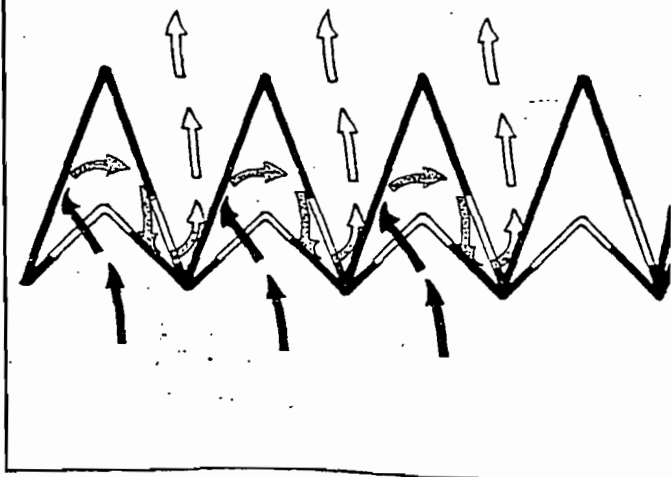
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Date: 8/3/89  
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**BINKS****FLOOR TYPE SPRAY BOOTHS (Andreae Filter)****Andreae Filter Spray Booths**

The Binks Andreae filter media is a completely new filtering agent applicable to all dry spray booths. The media is made of special non-fire supporting paper that is formed into double accordian-type folds with staggered holes to provide a highly efficient filter. Paint laden air changes direction four times during its passage through the filter. Each time the air changes direction, paint particles are thrown against the filter surface by centrifugal force and made to adhere there. The large air openings are self-cleaning. They allow large volumes of air to pass in uniform flow, with little loss of efficiency as the media becomes contaminated. Binks Andreae filters last from three to five times longer than pad type filters. Almost any dry filter booth may be converted simply and economically to the Andreae filter media.

Andreae filters have a Class 2 listing by Underwriters Laboratories and are Factory Mutual approved.

**Construction Features**

Built of 18 gauge steel panels with exterior flanges. Interior of booth is smooth. Panels are factory painted on both sides.

One or more packs of filter media, 3' x 30', are supplied which can be cut easily to fit booths of any width.

Exhaust Unit & Lighting equipment may be added separately or included in package models.

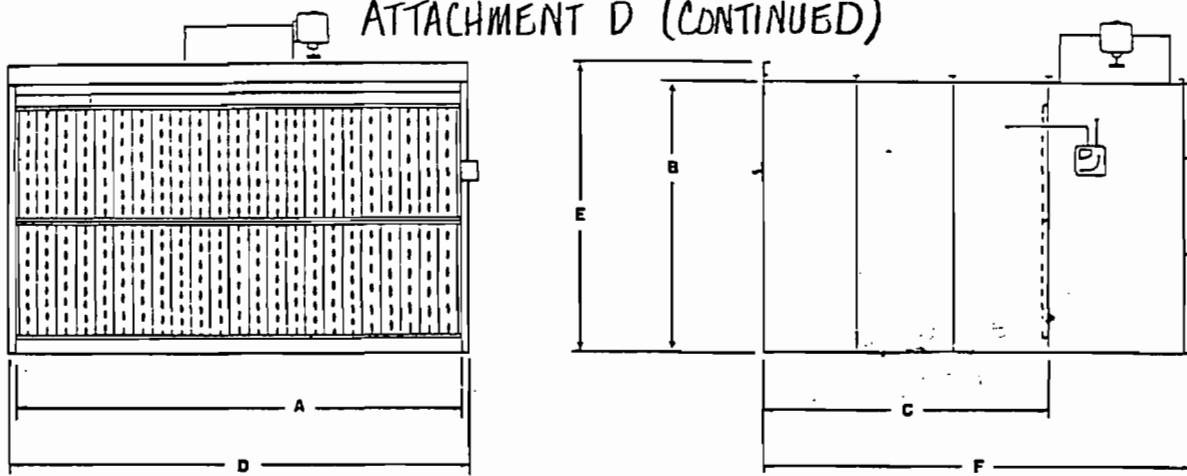
See page 4 for Package Equipment List.

**Filter Replacement**

The filter should be installed with eight corrugations to every foot of booth width. To facilitate cutting and positioning, the filter is marked at every eighth corrugation. Clip in one end, stretch across the frame and clip in the other end, an operation taking less than one minute. If any short pieces are left over, they can be attached to a new length, either by a strip of masking tape or by stapling. NOTE: For easy removal of a "loaded" filter, apply a coating of grease to the frame before inserting the filter.



# ATTACHMENT D (CONTINUED)



## 7'-0" HIGH 125 FPM MIN. FACE VELOCITY (FLOOR TYPE)

Model Number*	Work Dimensions			Overall Dimensions			Air Flow at 1/4" Water Col. SCFM	Fan and Motor†			Qty. Windows & Lights	Shpg. Wt. Lbs.
	A	B	C	D	E	F		Model No.	Dia.	H.P.		
FA-4-7-T	4'-0"	7'-0"	4'-0"	4'-4"	7'-2"	6'-8"	3750	30-1620	18"	3/4	0	550
PFA-4-7-T											0	675
FA-5-7-T											0	575
PFA-5-7-T											0	750
FA-6-7-T	5'-0"	7'-0"	4'-0"	5'-4"	7'-2"	6'-8"	4500	30-4200	24"	1/2	1	850
PFA-6-7-T											0	660
PFA-6-7-T-LH											0	850
FA-8-7-T	6'-0"	7'-0"	4'-0"	6'-4"	7'-2"	6'-8"	5600	30-4202	24"	3/4	1	950
PFA-8-7-T											0	950
PFA-8-7-T-LH											0	950
FA-8-7-T	7'-8"	7'-0"	6'-0"	8'-0"	7'-2"	8'-8"	7400	30-4206	24"	1 1/2	0	1150
PFA-8-7-T-LH											1	1250
FA-10-7-T											0	1150
PFA-10-7-T	9'-8"	7'-0"	6'-0"	10'-0"	7'-2"	9'-8"	10000	30-4303	34"	1 1/2	0	1425
PFA-10-7-T-LH											2	1625
FA-12-7-T											0	1300
PFA-12-7-T	11'-8"	7'-0"	6'-0"	12'-0"	7'-6"	9'-8"	11700	30-4305	34"	2	0	1600
PFA-12-7-T-LH											3	1900
FA-16-7-T											0	1950
PFA-16-7-T	15'-8"	7'-0"	7'-6"	16'-8"	7'-10"	11'-2"	13900	30-4307	34"	3	0	2300
PFA-16-7-T-LH											4	2700
FA-20-7-T											0	2600
PFA-20-7-T	19'-8"	7'-0"	7'-6"	20'-8"	8'-0"	11'-8"	18000	30-4410	42"	5	0	3000
PFA-20-7-T-LH											6	3000

## 8'-0" HIGH 125 FPM MIN. FACE VELOCITY (FLOOR TYPE)

Model Number*	Work Dimensions			Overall Dimensions			Air Flow at 1/4" Water Col. SCFM	Fan and Motor†			Qty. Windows & Lights	Shpg. Wt. Lbs.
	A	B	C	D	E	F		Model No.	Dia.	H.P.		
FA-4-8-T	4'-0"	8'-0"	4'-0"	4'-4"	8'-2"	6'-8"	4500	30-4200	24"	1/2	0	570
PFA-4-8-T											0	725
FA-5-8-T											0	660
PFA-5-8-T	5'-0"	8'-0"	4'-0"	5'-4"	8'-2"	6'-8"	5600	30-4202	24"	3/4	0	830
PFA-5-8-T-LH											1	930
FA-6-8-T											0	750
PFA-6-8-T	6'-0"	8'-0"	4'-0"	6'-4"	8'-2"	6'-8"	6200	30-4204	24"	1	0	925
PFA-6-8-T-LH											1	1025
FA-8-8-T											0	1100
PFA-8-8-T	7'-8"	8'-0"	6'-0"	8'-0"	8'-2"	8'-8"	8000	30-4207	24"	2	0	1375
PFA-8-8-T-LH											1	1475
FA-10-8-T											0	1300
PFA-10-8-T	9'-8"	8'-0"	6'-0"	10'-0"	8'-2"	9'-8"	10000	30-4303	34"	1 1/2	0	1575
PFA-10-8-T-LH											2	1775
FA-12-8-T											0	1700
PFA-12-8-T	11'-8"	8'-0"	7'-6"	12'-0"	8'-6"	11'-2"	11700	30-4305	34"	2	0	2000
PFA-12-8-T-LH											3	2300
FA-16-8-T											0	2100
PFA-16-8-T	15'-8"	8'-0"	7'-6"	16'-8"	8'-10"	11'-2"	17000	30-4312	34"	5	0	2450
PFA-16-8-T-LH											4	2850
FA-20-8-T											0	2750
PFA-20-8-T	19'-8"	8'-0"	7'-6"	20'-8"	9'-0"	11'-8"	20300	30-4412	42"	5	0	3150
PFA-20-8-T-LH											6	3750

\* Model number suffix LH indicates booth furnished with dust and ignition proof fluorescent fixtures, Model 29-900, which conform to OSHA requirements for Class I, Div. 2 hazard locations.  
 † See pages 50 and 51 for exhaust fan specifications.  
 ‡ See page 4 for operating components and accessories furnished with above booths.  
 2. Fluorescent tubes not furnished. Purchase locally.  
 3. Explosion proof or totally enclosed motor, and motor starter, available at extra cost.

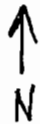
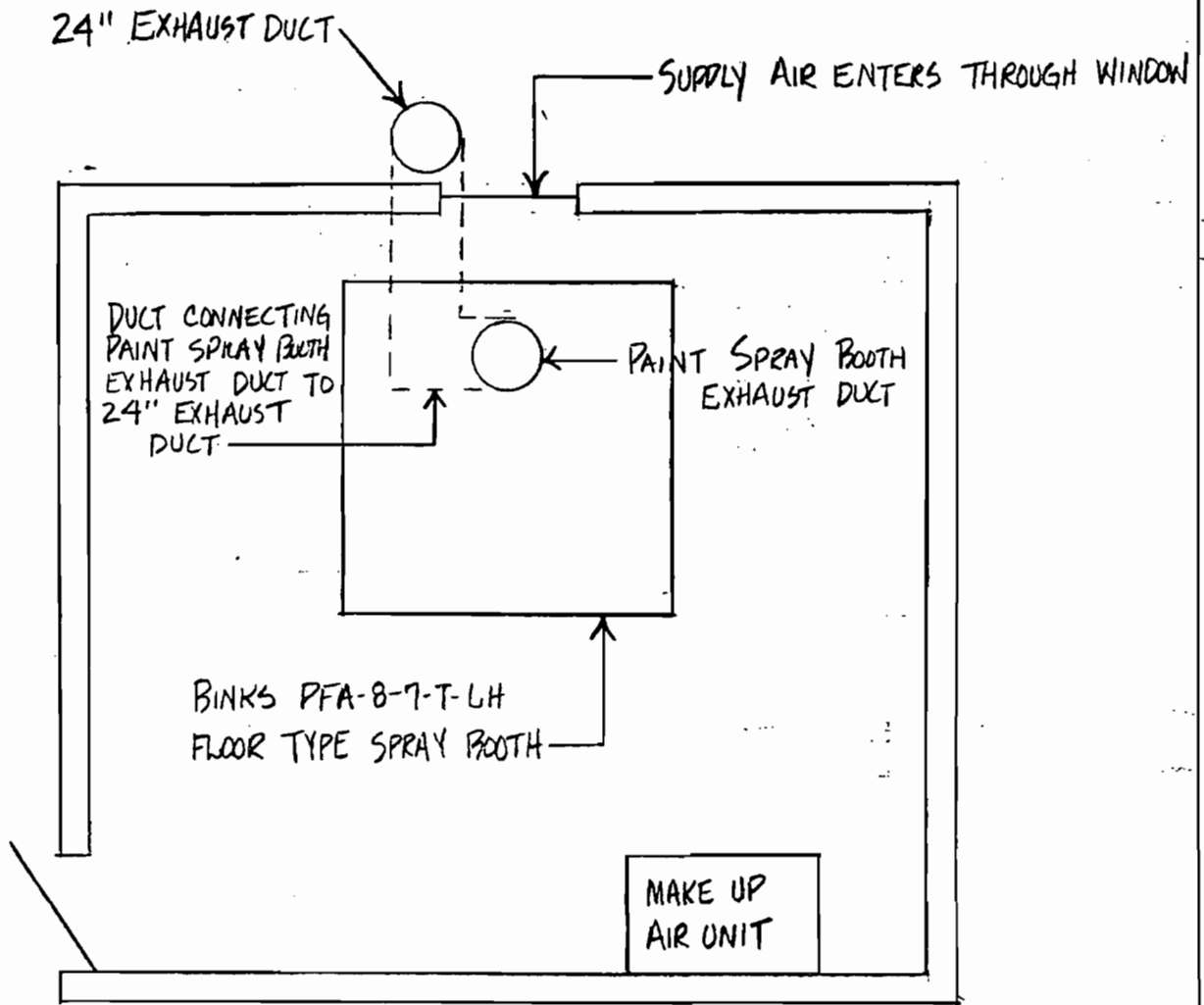
4. Top or back exhaust standard. Specify on order. Consult Binks representative if more than 25 ft. of exhaust duct are required.  
 5. Safety monitoring and control devices, as well as complete automatic systems, available at extra cost. Consult local codes and your Binks representative for the equipment most appropriate to your operation.  
 6. Dirty filter automatic shut-down safety system available at extra cost. See page 58.

# CALCULATIONS

BY \_\_\_\_\_ DATE \_\_\_\_\_ SUBJECT \_\_\_\_\_  
CHKD. BY \_\_\_\_\_ DATE \_\_\_\_\_  
DEPT. \_\_\_\_\_

SHEET NO. \_\_\_\_\_ OF \_\_\_\_\_  
JOB NO. \_\_\_\_\_

## ATTACHMENT E



PS-14-SIK FLOW DIAGRAM  
NOT TO SCALE  
7/11/89





PLANT ENGINEERING

CALCULATIONS

BY \_\_\_\_\_ DATE \_\_\_\_\_ SUBJECT \_\_\_\_\_  
CHKD. BY \_\_\_\_\_ DATE \_\_\_\_\_  
DEPT. \_\_\_\_\_

SHEET NO. \_\_\_\_\_ OF \_\_\_\_\_  
JOB NO. \_\_\_\_\_

ATTACHMENT G  
PLOT PLAN OF SIKORSKY AIRCRAFT  
7/11/89

