Check Sheet

Company Name: Permit Number: PSD Number: Permit Engineer:	Kennedy Space AC 05-17622	Center	
Responses	ness Letters Department Action	Cross References:	
Proof of Publications -	ation t with:		
Final Determination Final Determination Signed Permit BACT Determination Other	ation		
Post Permit Corres Extensions Other	spondence: /Amendments/Modifications		

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SENDER: Complete items 1 and 2 when additional s 3 and 4. Put your address in the "RETURN TO" Space on the rever card from being returned to you. The return receipt fee will put to and the date of delivery. For additional fees the following for fees and check box(es) for additional service(s) request 1. Show to whom delivered, date, and addressee's additional service(s) request 1. Extra charge)	se side. Failure to do this will prevent this rovide you the name of the person delivered services are available. Consult postmaster ted. dress. 2. Restricted Delivery (Extra charge)
3. Article Addressed to: Phillips	4. Article Number 396 184
Director of Eng. Developmen John F Kelthedy Space Ctr Kennedy Space Center, Fl	Type of Service: Registered Insured Certified COD Express Mail Return Receipt for Merchandise
32899	Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature — Address	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature Agent	
7. Date of Delivery (8/30/90	
PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212-	-865 DOMESTIC RETURN RECEIPT

P 255 396 184

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED NOT FOR INTERNATIONAL MAIL

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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 PERMIT

Mr. James D. Phillips Director of Engineering Development John F. Kennedy Space Center Kennedy Space Center, Florida 32899

August 28, 1990

Enclosed is construction permit No. AC 05-176221 for the National Aeronautic and Space Administration to construct a TPS Small Parts Processing Paint Booth at the Kennedy Space Center in Brevard County, Florida. This permit is issued pursuant to Section 403, Florida Statutes.

Any party to this permit has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this permit is filed with the Clerk of the Department.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

C. H. Fancy, P.E.

Chief

Bureau of Air Regulation

Copy furnished to:

Charles Collins, Central Dist. David Buff, P.E.

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 8-28-6

> 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.

Final Determination

John F. Kennedy Space Center Brevard County, Florida

TPS Small Parts Processing Paint Booth Permit No. AC 05-176221

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

Final Determination

The Technical Evaluation and Preliminary Determination for the permit to construct a TPS Small Parts Processing Paint Booth at the Kennedy Space Center in Brevard County, Florida, was distributed on March 23, 1990. The Notice of Intent to Issue was published in the Florida Today Newspaper on July 20, 1990. Copies of the evaluation were available for public inspection at the Department's offices in Orlando and Tallahassee.

No comments were submitted on the Department's Intent to Issue the permit. The final action of the Department will be to issue construction permit No. AC 05-176221 as proposed in the Technical Evaluation and Preliminary Determination.



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:

John F. Kennedy Space Center Kennedy Space Center, Florida 32899 Permit Number: AC 05-176221 Expiration Date: May 1, 1991

County: Brevard

Latitude/Longitude: 28°33'43"N 80°39'36"W

Project: TPS Small Parts Processing Spray Booth

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:

Construction of 10'-8"W x 9'-8"L x 7'-6"H custom design Binks Paint Booth equipped with 99% efficient inlet and outlet particulate matter filters, that exhaust 8700 acfm of makeup air to the existing vent system. The booth shall be used for the application of Rustoleum, Akzo/Sikkens, Hypalon topcoat, Alodine anodizing agent, along with trichloroethane solvent by disposable rollers or brushes to small parts during the refurbishment of solid rocket boosters. The paint booth will be located inside the ARF building. The UTM coordinates of this building are Zone 17, 533.3 km E and 3159.3 km N.

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 received February 9, 1990

Page 1 of 6



PERMITTEE:
John F. Kennedy Space Center

Permit Number: AC 05-176221 Expiration Date: May 1, 1991

GENERAL CONDITIONS:

- 1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
- 2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
- 3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
- 4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
- 5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

PERMITTEE:
John F. Kennedy Space Center

Permit Number: AC 05-176221 Expiration Date: May 1, 1991

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.

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.
 - 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

PERMITTEE:
John F. Kennedy Space Center

Permit Number: AC 05-176221 Expiration Date: May 1, 1991

GENERAL CONDITIONS:

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 paint booth may be operated continuously, 8760 hrs/yr.
- 2. Volatile organic compounds emissions from the booth shall not exceed 4.4 tons during any 12 month period and 1.2 tons during any 3 month period or the following:

Material	gal/yr -	gal/quarter
Rustoleum:		•
Primer	6.0	1.5
Paint	6.0	1.5
Akyo/Sikkens:		
Primer & Catalyst	18.0	4.5
Topcoat & Catalyst	9.6	2.4
Hypalon Topcoat	648.0	162.0
Alodine Anodizing Agent	3.1	0.8
1,1,1-trichloroethane	213.6	53.4

Compliance shall be determined by maintaining a log on the quantity of material used in the booth and its VOC content. The

PERMITTEE:
John F. Kennedy Space Center

Permit Number: AC 05-176221 Expiration Date: May 1, 1991

SPECIFIC CONDITIONS:

permittee shall report the monthly VOC emissions (DER Form 17-1.202(6)) from this source annually.

- 3. Waste paints, chemicals, and solvents shall be stored in a sealed containers.
- 4. Filters controlling particulate matter emissions and visible emissions shall be properly maintained.
- 5. Visible emissions from this source shall not exceed 5 percent opacity. EPA Method 9 tests (40 CFR 60, Appendix A, July 1, 1988) shall be conducted by the permittee upon a written request by the Department.
- 6. The permittee shall not allow the discharge of air pollutants from this operation that cause or contribute to objectionable odors.
- 7. 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).
- 8. An application for an operation permit must be submitted to the Department's Central District office in Orlando 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).

Issued this $\frac{28}{1990}$ day of $\frac{8}{1990}$

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

tor

STEVE SMALLWOOD P.E., Director

Division of Air Resources

Management

 National Aeronautics and Space Administration

> John F. Kennedy Space Center Kennedy Space Center, Florida 32899



Reply to Attn of

DF-EMS

RECEIVE DER-BAOM

Florida Dept. of Environmental Regulation

Attn: Mr. Claire Fancy 2600 Blair Stone Road Tallahassee,FL 32399

SUBJECT: Legal Advertisement for Construction Permit for the TPS

Small Parts Processing

Enclosed is a copy of the subject legal advertisement.

Any questions you have concerning this permit should be directed to Mr. Mario Busacca of my staff

James E. Sullivan 8/6,

Chief, Environmental Management Staff

Enclosure

C: W. Hanks

CAPE PUBLICATIONS, INC.

The Times

Published Weeklycon Wednesday

THE TRIBUNE

Published Weekly on Wednesday



Published Daily

STATE OF FLORIDA COUNTY OF BREVARD

Before the undersigned authority personally appeared	
oath says that he/she isLegal Advertisi	ng Clerk
of the FLORIDA TODAY , a new	spaper published in Brevard County,
Florida; that the attached copy of advertising being a	
Intent to issue permit to John F	. Kennedy Space Ce
to construct a TPS in the	Court
was published in the FLORIDA TODAY	NEWSPAPER
in the issues of	
Affiant further says that the saidFLORIDA TODA	AY NEWSPAPER
is a newspaper published in said Brevard County, Florida a	and that the said newspaper has
heretofore been continuously published in said Brevard County	, Florida regularly as stated above,
and has been entered as second class mail matter at the post of	office in COCOA
said Brevard County, Florida for a period of one year next pre	ceeding the first publication of the
attached copy of advertisement; and affiant further says that 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 said newspaper.	
A	ACCOUNTING HJNARB
CAUTHUR ALAH	NASA-KSC
Sworn and subscribed to before me this	06. MA 36 8 25 Jul
day of A.D., 1900	

OFFICIAL SEAL LEAH SMITH MY COMMISSION EXPIRES JUNE 07, 1992

4MCOMING

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 a permit to the John F. Kennedy Space
Center. Brevard County, Florida
32899, to construct a TPS (thermal protection system) small
parts processing paint booth at
the SRB Assembly and Returbishment Facility. Up to 4.410
TPY VOC pollutants will be emitted from the booth. The VOC
emissions from this source will
not violate any ambient air quality istandard. A determination of
Best Available Control Technolbys (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
'treceived) in the Office of Generai (Counsel of the Department at
2400 Balar Stone Road, Tallahassee, Florida 32399-2400, within
fourteen (14) days of publication
of ithis notice. Petitioner shall
mail a copy of the petition to the
applicant at the address indicated; above at the lime 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 administrailve determination (hearing)
putsuant to 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 each
bettiinner's substantial interests
are affected by the Department's
action or proposed action;

(c) A statement of the material
facts disputed by Petitioner, if
acts disputed by Petitioner, if
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lacis disputed by Petitioner, in any;

(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

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

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

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

The application is available for public inspection during 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
Bureau of Air Regulation
Bureau of Air Regulation
Bureau of Air Regulation

Department of Environmental

Department of Environmental Regulation Central District 3319 Maguire Blvd., Suite 232 Orlando, Florida 32803-3767 - Any person may send written comments on the proposed action to Mr. Bill Thomas at the Department's Tallahassee address. All comments malled within 14 days of the publication of this notice? With be considered in the Department's final determination. TO 105125-11-7/20, 1990, Friday

services are desired, and complete items se side. Failure to do this will prevent this rovide you the name of the person delivered a services are available. Consult postmaster ted. dress. 2. Restricted Delivery (Extra charge)
4. Article Number P 938 762 853
Type of Service: Registered Insured COD Express Mail Return Receipt for Merchandise Always obtain signature of addressee
or agent and DATE DELIVERED. 8. Addressee's Address (ONLY if requested and fee paid)

₽ 938 762 853

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED

NOT FOR INTERNATIONAL MAIL

(See Reverse)

	(See Heverse)	
[5	ent to Mr. James D. Philli	
- 1	Street and No. John F. Kennedy Spa	
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	Special Delivery Fee	
	Restricted Delivery Fee	
	Return Receipt showing to whom and Date Delivered	
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ne Earm 3800, June 1985	Mailed: 3-23-90 Permit: AC 05-1	76221
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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

March 22, 1990

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. James D. Phillips Director of Engineering Development John F. Kennedy Space Center Kennedy Space Center, Florida 32899

Dear Mr. Phillips:

Attached is one copy of the Technical Evaluation and Preliminary Determination and proposed permit to construct the TPS Small Parts Processing Paint Booth in the SRB Assembly and Refurbishment Facility at Kennedy Space Center, Brevard 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,

C. H. Fancy, P.E.

Chief

Bureau of Air Regulation

CHF/WH/plm

Attachments

c: Charles Collins, Central Dist. David Buff, P.E.

BEFORE THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of Application for Permit by:

John F. Kennedy Space Center Kennedy Space Center, Florida 32899 DER File No. AC 05-176221

INTENT TO ISSUE

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

The applicant, John F. Kennedy Space Center, applied on February 7, 1990, to the Department of Environmental Regulation for a permit to construct a TPS (thermal protection system) Small Parts Processing Paint Booth in the Assembly and Refurbishment Facility (ARF) at the Kennedy Space Center, Schwartz Road and Kennedy Parkway, Brevard 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 The petition must contain 120.57, Florida Statutes. 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 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 Accordingly, formulate action. to agency 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 publication of this notice in the Office in General Counsel at the above address of the Department. Failure to petition within the 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

C. H. Fancy, P.E.

Chief

Bureau of Air Regulation

Copies furnished to:

Charles Collins, Central District David Buff, P.E.

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 a permit to the John F. Kennedy Space Center, Brevard County, Florida 32899, to construct a TPS (thermal protection system) small parts processing paint booth at the SRB Assembly and Refurbishment Facility. Up to 4.410 TPY VOC pollutants will be emitted from the booth. The VOC emissions from this source will not violate any ambient air quality standard. 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 contain 120.57, Florida Statutes. The petition must information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information:

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

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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 Central District 3319 Maguire Blvd., Suite 232 Orlando, Florida 32803-3767

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

John F. Kennedy Space Center Brevard County, Florida

TPS Small Parts Processing Paint Booth File No. AC 05-176221

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

I. General Information

A. John F. Kennedy Space Center Kennedy Space Center, Florida 32899

B. Request

Mr. James D. Phillips, Director of Engineering Development, submitted an application for permit to construct a paint booth in the Assembly and Refurbishment Facility on February 7, 1990. The application was considered complete on receipt (February 9, 1990). The proposed booth will be located at the Kennedy Space Center, Schwartz Road and Kennedy Parkway, Brevard County, Florida. The UTM coordinates of this facility are Zone 17, 533.3 km E and 3159.3 km N.

C. Project

The applicant is proposing to construct a new paint booth at this facility. Ventilation air for the booth (8,700 ACFM) will be filtered prior to entering and before leaving the booth. The ventilation air, containing volatile organic compounds (VOC) fumes from the coating solvents used in the booth, are exhausted to the atmosphere through the existing ventilation system serving this area of the plant.

D. Process and Emissions

Coatings are applied to the small parts with disposable brushes or rollers. The solvents in the coatings are evaporated and exhausted from the booth with the ventilation air. The 99% efficient filters serving the booth capture only the particulate matter. No equipment is used to capture the VOC fumes. The VOC emissions from the booth are directly related to the amount of coatings and solvents used in the booth. The applicant estimates these emissions to be 4.41 TPY of VOC. This will increase permitted VOC emissions from the SRB facility from 105 to 109.41 TPY.

II. Rule Applicability

The proposed project, construction of a paint booth (SIC 3761), is subject to preconstruction review under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2, Florida Administrative Code (F.A.C.).

The existing facility is located in an area (Brevard County) designated attainment for all of the criteria pollutants.

The Kennedy Space Center is a major facility because permitted VOC emissions exceed 100 TPY VOC. The permitted emissions are less than 250 TPY VOC and space vehicle manufacture

is not on the list of major facility categories (F.A.C. Rule 17-2, Table 500-1). The increase in emissions from the proposed source are less than the significant emissions rates listed in F.A.C. Rule 17-2, Table 500-2. Thus, the new booth is not subject to the PSD regulations, F.A.C. Rule 17-2.500. The new source is subject to F.A.C. Rule 17-2.520, Sources Not Subject to Prevention of Significant Deterioration or Nonattainment Requirements. The allowable VOC emissions are based on F.A.C. Rule 17-2.620(1). Higher emissions could subject this project to other regulations.

III. Technical Evaluation

Air leaving the booth will pass through a filter that removes 99 percent of the particulate matter. This filter will adequately control the particulate matter emissions from the booth.

The filter will not reduce VOC emissions. The VOC emissions will be controlled by limiting the quantity of coatings and solvents that are used in this booth. This limit will result in an allowable emission of 4.410 TPY VOC. The applicant will be required to keep records on the quantity and analysis of the materials used to confirm compliance with this limit.

Clean up solvent consumption is minimized because of the use of disposable brushes and rollers.

IV. Ambient Air Impact

It is the judgement of the Department that the allowable emissions from this project will not violate any ambient air quality standard.

V. Conclusion

Based on the information provided by the National Aeronautics and Space Administration, the Department has reasonable assurance that the proposed construction of the TPS Small Parts Processing Paint Booth at the Kennedy Space Center, as described in this evaluation, and subject to the conditions proposed herein, will not cause or contribute to a violation of any air quality standard, PSD increment, or any other technical provision of Chapter 17-2 of the Florida Administrative Code.





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:

John F. Kennedy Space Center Kennedy Space Center, Florida 32899 Permit Number: AC 05-176221 Expiration Date: May 1, 1991

County: Brevard

Latitude/Longitude: 28°33'43"N

80°39'36"W

Project: TPS Small Parts
Processing Spray Booth

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:

Construction of 10'-8"W x 9'-8"L x 7'-6"H custom design Binks Paint Booth equipped with 99% efficient inlet and outlet particulate matter filters, that exhaust 8700 acfm of makeup air to the existing vent system. The booth shall be used for the application of Rustoleum, Akzo/Sikkens, Hypalon topcoat, Alodine anodizing agent, along with trichloroethane solvent by disposable rollers or brushes to small parts during the refurbishment of solid rocket boosters. The paint booth will be located inside the ARF building. The UTM coordinates of this building are Zone 17, 533.3 km E and 3159.3 km N.

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:

Application received February 9, 1990

Page 1 of 6



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.

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.

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.
 - 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

GENERAL CONDITIONS:

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 paint booth may be operated continuously, 8760 hrs/yr.
- 2. Volatile organic compounds emissions from the booth shall not exceed 4.41 tons during any 12 month period and 1.2 tons during any 3 month period or the following:

Material	gal/yr	gal/quarter
Rustoleum:		
Primer	6.0	1.5
Paint	6.0	1.5
Akyo/Sikkens:		
Primer & Catalyst	18.0	4.5
Topcoat & Catalyst	9.6	2.4
Hypalon Topcoat	648.0	162.0
Alodine Anodizing Agent	3.1	0.8
1,1,1-trichloroethane	213.6	53.4

Compliance shall be determined by maintaining a log on the quantity of material used in the booth and its VOC content. The

PERMITTEE:
John F. Kennedy Space Center

Permit Number: AC 05-176221 Expiration Date: May 1, 1991

SPECIFIC CONDITIONS:

permittee shall report the monthly VOC emissions (DER Form 17-1.202(6)) from this source annually.

- 3. Waste paints, chemicals, and solvents shall be stored in a sealed container and disposed of in a waste facility permitted to handle this material.
- 4. Filters controlling particulate matter emissions and visible emissions shall be properly maintained.
- 5. Visible emissions from this source shall not exceed 5 percent opacity. Method 9 tests (40 CFR 60, Appendix A, July 1, 1988) shall be conducted by the permittee upon a written request by the Department.
- 6. The permittee shall not allow the discharge of air pollutants from this operation that cause or contribute to objectionable odors.
- 7. 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).
- 8. An application for an operation permit must be submitted to the Department's Central District office in Orlando 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).

Issued	this	 day
of		1990

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

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

National Aeronautics and Space Administration

John F. Kennedy Space Center Kennedy Space Center, Florida 32899

RECEIVED DER - MAIL ROOM

1990 FEB -9 M 9: 13

Reply to Attn of

DF-EMS

RECEIVED Florida Department of Environmental Regulation Attn: Mr. Claire Fancy Bureau of Air Quality DER - BAQM 2600 Blair Stone Road Tallahassee, FL 32301-8241

SUBJECT: Construction Permit Application for the TPS Small Parts Processing Spray Booth at the SRB Assembly and Refurbishment Facility (ARF) on Kennedy Space Center, FL

Attached are four (4) copies of the subject application and a check for \$250.00 for the processing fee.

Any questions concerning this permit application should be directed to Mr. Mario Busacca of my staff at 407 867-4049.

s D. Phillips

Diractor of Engineering Development

Enclosure

ce: C. Collins, e Dist.



Best Available Copy

USBI P.O. Box 21212 Kennedy Space Center, Florida 32815 74-1292 724 CHECK NO.

066108

TWO HUMDTED FIFTY DOLLARS NO CENTS

PAY TO THE ORDER OF

FLORIDA DEPT. OF ENVIRONMENTAL REGULATION
3312 MAGUIRE DOULEVARD
OPLANDO, FL. 37803

DATE

CHECK AMOUNT

1-26-90

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AUTHORIZED COUNTERSIGNATURE

NBD DEARBORN BANK, N.A. 611 WOODWARD, DETROIT, MICHIGAN 48226 USBI OPERATION ACCOUNT

#O66108# #O72412927#

000459561

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James D. Phillips

Diractor of Engineering Development

Enclosure

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

#250pd-\$ 4-40 Bept:#151183

PER 9 1990 BUTTON PORTOR PROPERTY AND THE OF PLOS PROPERTY AND THE OFFICE PROPERTY AN

AC05-176221

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

APPLICATION TYPE: [k] Construction [] Operation [] Modification COMPANY NAME: National Aeronautics and Space Administration	Solid Rocket Booster SOURCE TYPE: Assembly and Refurbishment Facility New [] Existing []	
Identify the specific emission point source(s) addressed in this application (i.e. Lime TPS Small Parts Processing Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Spray Booth SOURCE LOCATION: Street Schwartz Road and Kennedy Parkway City Kennedy Space Center UTM: East 17-533.3 km North 3159.3 km Latitude 28° 33' 43"N Longitude 80° 39' 36"W APPLICANT NAME AND TITLE: James D. Phillips, Director of Engineering Development APPLICANT ADDRESS: DE/Kennedy Space Center, FL 32899 SECTION I: STATEMENTS BY APPLICANT AND ENGINEER A. APPLICANT I am the undersigned owner or authorized representative* of Space Administration I certify that the statements made in this application for a construction permit are true, correct and complete to the best of my knowledge and belief. Further I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provision of Chapter 403, Florid Statutes, and all the rules and regulations of the department and revisions thereof. also understand that a permit, if granted by the department, will be non-transferabl and I will promptly notify the department upon sale or legal transfer of the permitte establishment. *Attach letter of authorization Signed: James D. Philips Director of Engineering Development Name and Title (Please Type) DateEB 0 7 1990 Telephone No.		
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	•	

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

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

DER Form 17-1.202(1) Effective October 31, 1982

BEST AVAILABLE COPY

the pollution control facilities, when properly maintained and operated, will discharg an effluent that complies with all applicable statutes of the State of Florida and the

	maintenance and operation of pollution sources.	owner, the applicant a set of instructions for the prope the pollution control facilities and, if applicable,
	A CONTRACTOR OF THE PARTY OF TH	Signed David a. Buff
	CALL TO THE STATE OF THE STATE	David A. Buff
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	725 C	Name (Please Type)
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DE TO THE TOTAL TO	KBN Engineering and Applied Sciences, Inc. Company Name (Please Type)
. 1	A Service of the serv	1034 NW 57th Street, Gainesville, FL 32605
	CA	Mailing Address (Please Type)
Flo	rida Registration No. 19011	Date: 1/18/90 Telephone No. 904-331-9000
	SECTION	
A.	and expected improvements in	t of the project. Refer to pollution control equipment, source performance as a result of installation. State lt in full compliance. Attach additional sheet if
	Refer to Attachment	Α
		
8.		n this application (Construction Permit Application Only)
	Start of Construction upon pe	rmit issuanceCompletion of Construction 1 year after permi
c.	for individual components/uni	issuance stem(s): (Note: Show breakdown of estimated costs only to see the project serving pollution control purposes. The nall be furnished with the application for operation
	\$6,000 for spray boo	th.
	•	
		
D.	Indicate any previous DER personant, including permit issua	nits, orders and notices associated with the emission ace and expiration dates.
	Not applicable.	

	·	<u> </u>
I f	this is a new source or major modification, answer the following ques	tions.
Y	es or No)	
۱.	Is this source in a non-attainment area for a particular pollutant?	-No-
	a. If yes, has "offset" been applied?	
	b. If yes, has "Lowest Achievable Emission Rate" been applied?	
	c. If yes, list non-attainment pollutants.	
·	Does best available control technology (BACT) apply to this source? If yes, see Section VI.	No
•	Does the State "Prevention of Significant Deterioriation" (PSD) requirement apply to this source? If yes, see Sections VI and VII.	No
•	Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source?	No
•	Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this scurce?	No
	"Reasonably Available Control Technology" (RACT) requirements apply this source?	No

b. If yes, in addition to the information required in this form, any information requested in Rule 17-2.650 must be submitted.

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

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

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

Refer to Aftac	Contami	inants	Utilization				
Description	Type	% Wt	Rate - lbs/hr	Relate to Flow Diagram			
·							
_							
•							

₿.	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								
Airb	orne Co	ntaminant	ts Emitted:	(Information	in	this	table	aust	be	aubmitte	d for	each

C. emission point, use additional sheets as necessary)

Name of	Attachment A Emission ¹		Allowed ² Emission Rate per	Allowable ³ Emission	Potent: Emiss:	Relate to Flow	
Conteminant	Meximum lbs/hr	Actual T/vr	Rule 17-2	lbs/hr	lbs/XX hr	T/yr	Diagram
-							
		·					

ISee Section V, Item 2.

 $^{^{2}}$ 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)

Calculated from operating rate and applicable standard.

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

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Binks Spray Booth	Particulate	99%	>1 um	Design

E. Fuels Not Applicable

	Consum	ption*	· · · · · · · · · · · · · · · · · · ·
Type (Be Specific)	avg/hr	max./hr	Maximum Heat Input (MMBTU/hr)
·			
•			<u> </u>
	·		

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

Fuel	Anai	iysis:
------	------	--------

Percent Sulfur:	Percent Ash:	
Density:	_ lbs/gal Typical Percent Nitrogen:	
Heat Capacity:	8TU/1b	BTU/ga
Other Fuel Contaminants (which may ca	ause air pollution):	·
		
F. If applicable, indicate the perce	ent of fuel used for space heating.	
Annual Average Not applicable	Maximum	
G. Indicate liquid or solid wastes of	generated and method of disposal.	
Waste paint and solvent will be drumm	med and disposed off-site.	
		

H. Emission Stack						
Stack Height:			<u>47</u> ft.	Stack Diamete	er:	<u>2.67</u> ft.
Gas Flow Rate:	8,700 ACFM_	8,080	_DSCFM	Gas Exit Temp	erature:	90 °F.
Yater Vapor Conten	it:		5 %	Velocity:		25.9 FPS
		ION IV: 1		TOR INFORMATI	ON	
	O Type I cs) (Rubbish)					(Solid By-prod.)
Actual lb/hr Inciner- ated						
Uncon- trolled (lbs/hr)	·					
escription of Was otal Weight Incin oproximate Number lanufacturer	erated (lbs/h	r)	per day	Design Cap		
ate Constructed _			Mode:	L No		
	Volume <u>(</u> ft) ³	Heat Re (BTU/		Fue]	BTU/hr	Temperature (°F)
Primary Chamber						··
Secondary Chamber				_		
tack Height:	ft.	Stack Diam	iter:		Stack T	emb•
as Flow Rate:		_ACFM		DSCFM*	Velocity: _	FPS
If 50 or more ton ard cubic foot dr					ions rate i	n grains per stan-
ype of pollution	control devic	e: [] Cy	clone] Wet Scrub	ber []Af	terburner

DER Form 17-1.202(1) Effective November 30, 1982

Brief description of	operating character	ristics of control	devices:	
Ultimate disposal of ash, etc.):	any effluent other	than that emitted	from the sta	ck (scrubber water,
			•	

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

SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

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

DER Form 17-1.202(1) Effective November 30, 1982

9.	The appropriate application fee in ac made payable to the Department of Envi	cordance with Rule 17-4.05. The check should t ironmental Regulation.
10.		rmit, attach a Certificate of Completion of Cor a was constructed as shown in the construction
Α.	No	/AILABLE CONTROL TECHNOLOGY t Applicable stationary sources pursuant to 40 C.F.R. Part 6
	[] Yes [] No	
	Contaminant	Rate or Concentration
	Has EPA declared the best available o	control technology for this class of sources (I
	[] Yes [] No	·
	Contaminant	Rate or Concentration
-	What emission levels do you propose as	best available control technology?
	Contaminant	Rate or Concentration
		· · · · · · · · · · · · · · · · · · ·
D.	Describe the existing control and trea	tment technology (if any).
	1. Control Device/System:	2. Operating Principles:
	3. Efficiency:*	4. Capital Costs:
*Exp	olain method of determining	
DER	Form 17-1.202(1)	

5.	Useful Life:		6.	Operating Costs:	
7.	Energy:		8.	Maintenance Cost:	
9.	Emissions:				
	Contaminant	-		Rate or Concentration	
					.•
			-	<u> </u>	
10.	Stack Parameters			<u> </u>	
a.	Height:	ft.	ь.	Diameter:	ft
c.	Flow Rate:	ACFM	d.	Temperature:	۰F
e.	Velocity:	FPS			
	cribe the control and treatment additional pages if necessary).	techn	olog	y available (As many types as	applicabl
1.					
a.	Control Device:		b.	Operating Principles:	
c.	Efficiency: 1		d.	Capital Cost:	
e.	Useful Life:		f.	Operating Cost:	·
g.	Energy: 2		ħ.	Maintenance Cost:	
i.	Availability of construction mat	erial	s an	d process chemicals:	
j.	Applicability to manufacturing p	roces	ses:		
k.	Ability to construct with contro within proposed levels:	ol de	vice	, install in available space,	and opera
. 2.					
8.	Control Device:		b.	Operating Principles:	
с.	Efficiency: 1		d.	Capital Cost:	
. е.	Useful Life:		f.	Operating Cost:	
g.	Energy: 2		h.	Maintenance Cost:	
i.	Availability of construction mat	erial	s an	d process chemicals:	
¹ Explai ² Energy	n method of determining efficienc to be reported in units of elect	y. rical	pow	er - KWH design rate.	

Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operat k. within proposed levels: 3. Control Device: Operating Principles: Efficiency: 1 Capital Cost: c. Useful Life: Operating Cost: f. е. Energy: 2 Maintenance Cost: g. Availability of construction materials and process chemicals: Applicability to manufacturing processes: . j. Ability to construct with control device, install in available space, and operat within proposed levels: 4. Control Device: Operating Principles: я. b. Efficiency: 1 d. Capital Costs: c. Operating Cost: Useful Life: f. Energy: 2 h. Maintenance Cost: Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in svailable space, and operat within proposed levels: Describe the control technology selected: Efficiency: 1 Control Device: 2. Capital Cost: Useful Life: Operating Cost: Energy: 2 7. Maintenance Cost: Manufacturer: Other locations where employed on similar processes: (1) Company: (2) Mailing Address: (3) City: (4) State: ¹Explain method of determining efficiency.

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

	(5) Environmental Manager:				
	(6) Telephone No.:				
	(7) Emissions: 1				
	Contaminant	-		Rate or Conce	entration
_					
	(8) Process Rate: 1		· · · · · · · ·		
	b. (1) Company:				
	(2) Mailing Address:				
	(3) City:		(4) State:		
	(5) Environmental Manager:				
	(6) Telephone No.:				
	(7) Emissions: ¹				
	Contaminant			Rate or Conce	entration
	(8) Process Rate: 1				
	10. Reason for selection and o	lescription	of systems:		•
	plicant must provide this infor ailable, applicant must state th			Should this	s information not
	SECTION VII - PE			DETERIORATIO	In
Α.	Company Monitored Data	Not Appl	icable		
	1no. sites	TSP	()	. so ² *	Wind spd/dir
	Period of Monitoring	month da	y year to	month day	/ year
	Other data recorded				
	Attach all data or statistical	summaries t	o this appli	cation.	
*Sp	ecify bubbler (B) or continuous	(c).		•	
DER	Form 17-1.202(1)				

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	2.	Instrumentation,	Field and	Laborator	y					
	a.	Was instrumentat	ion EPA re	ferenced o	r its e	quivalent	? [] Yes	[] No	-	
	ь.	Was instrumentat	ion calibr	ated in ac	cordanc	e with De	partment p	rocedure	s?	
		[] Yes [] No	[] Unkno	wn						
В.	Met	eorological Data	Used for A	ir Quality	Modeli	ng				
	1.	Year(s) of	data from	/month da	y year	to month	/ / day yea	r ·		
	2.	Surface data obt	ained from	(location)	_				
	3.	Upper air (mixin	g height) (data obtai	ned fro	m (locati	on)			
	4.	Stability wind r	ose (STAR)	data obta	ined fr	om (locat	ion)			
C	Com	puter Hodels Used								
	1.					Modified	? If yes,	attach	descripti	on.
	2.					Modified	? If yes,	attach	descriptio	on.
	3.					Modified:	? If yes,	attach	descripti	an.
	4.								.*	
		ach copies of all le output tables.								
D.	App.	licants Maximum A	llowable En	ission Da	ta					
	Pol.	lutant	En	ission Rat	te					
		TSP				g:	cams/sec			
	:	502				g:	ams/sec			
ε.	Emi	ssion Data Used i								
	Att	ach list of emiss	ion sources	s. Emissio	on data	required	is source	name. d	escription	ם ה

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.
- 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.
- 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

USBI operates an existing facility at Kennedy Space Center which refurbishes and assembles solid rocket boosters (SRBs) for the space shuttle program. SRBs are recovered after each space shuttle launch, brought back to Kennedy Space Center, and are refurbished for use on a future flight. The refurbishment process consists of several steps, including stripping of old paint and insulation, cleaning, metal pretreatment, priming, painting and curing. Both large and small parts are processed. USBI has received either air pollution construction or operating permits for the facility, which cover all air emitting sources at the main processing facility [Assembly and Refurbishment Facility (ARF)] and at Hangar AF.

USBI is currently proposing to construct and operate an additional air emission source at the ARF. This source is the Thermal Protection System (TPS) Small Parts Spray Booth. Small parts from the refurbishment process will be primed and painted in this booth. Up to 200 parts per flight are expected to be processed through the spray booth. However, quantities of paints and solvents used are relatively small. Materials and chemicals utilized in the booth are identified in Table A-1. Also shown are annual quantities of each chemical, the volatile organic compounds (VOC) present in each, and the annual VOC emissions. Total VOC emissions are 4.410 tons per year.

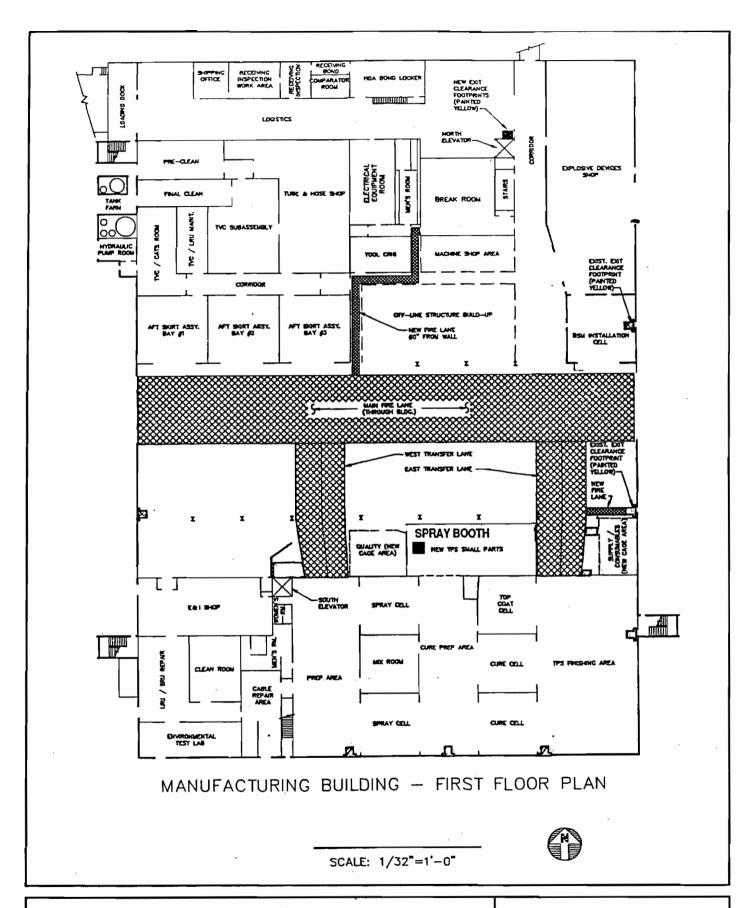
Paints will be applied to the small parts manually by means such as paint brush or roller. As such, there will essentially be no emissions of particulate matter from the spray booth, except fugitive particulate which may be entrained in the makeup air for the booth. The booth will be located inside the ARF building (see attached figure). Make-up air for the booth will come from the TPS small parts processing area, which may contain some particulate matter from other activities in the building.

Table A-1. Material Usage and VOC Emission Rates for TPS Small Parts Spray Booth

Material/Chemical		Density	Utili	zation Ra	te	VOC	VOC Emissions (tons/yr)	
		(lb/gal)	gal/flight	gal/yr	tons/yr	(% by wt.)		
PAINTS								
Rustoleum:	Primer Paint	19.3 10.4	0.25 0.25	6.0 6.0	0.058 0.031	58.0 ^a 56.0 ^a	0.034 0.017	
Akzo/Sikker	ns:	•						
Primer +	Catalyst	9.59	0.75	18.0	0.086	56.5	0.049	
Topcoat +	Catalyst .	9.86	0.40	9.6	0.047	49.8	0.024	
Hypalon top	coat	12.9	27.00	648.0	4.180	74.0	3.093	
CHEMICALS								
Alodine and	odizing agent	8.35	0.13	3.1	0.013	0	0.000	
SOLVENTS								
1,1,1-trich	loroethane	11.18	8.9	213.6	1.194	100	1.194	
TOTALS					5.609		4.410	

^aRepresents percent volatile by volume, which is higher than percent volatile by weight.

USBISPSB 1/1/90



LOCATION OF NEW TPS SMALL PARTS SPRAY BOOTH

NASA/USBI

The spray booth will be a custom design Binks spray booth, equipped with paint arrestor filter pads. Filter pads will also be located on the air inlet to the booth, which are located on the doors of the booth. These filter pads will filter makeup air to the booth. Dimensions of the booth are shown in the attached drawings. The booth will be ducted to an existing exhaust vent, designated as M-222, located on the roof of the ARF.

The proposed new source at USBI does not require Prevention of Significant Deterioration (PSD) review. The USBI facility, under Florida Administration Code Chapter 17-2 rules, does not belong to one of the 28 listed major source categories, and total emissions from the facility after modification are less than 250 tons per year. Current USBI permits allow up to 130 tons per year VOC emissions. The proposed new source will increase potential VOC emissions to 134.4 tons per year. As a result, the proposed modification is exempted from PSD review under F.A.C. Rule 17-2.500 (2)(d)4.b.

MATERIAL SAFETY DATA SHEETS

FOR COATINGS. RESINS AND RELATED MATERIALS

(APPROVED BY U.S. DEPT. OF LABOR "ESSENTIALLY SIMILAR" TO FORM OSHA-20)

SECTION_I

MANUFACTURER: RUST-DLEUM CORPORATION

ADDRESS:

11 HAWTHORN PARKWAY

EMERGENCY TELE: (312)367-7700

VERNON HILLS. IL

INFORMATION TELE: (312)367-7700

60061

PRODUCT CLASS:

POLYAMIDE CONVERTED

MANUFACTURERS CODE NO.: 9334

EPOXY-ZINC MODIFIED

TRADE NAME: HEAVY DUTY EPOXY GREEN ZINC-SELE (PRIMER)

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENI	WI_%	ILV-PPM = MG/M	LEL	MM_HG220C
XYLOL		100SKIN	1.0	9.5
PROPYLENE GLYCOL METHYL ETHER	<5%	100	NA	10.9
N-BUTYL ALCOHOL	<1%	50SKIN	1.4%	4 • 4

____\$_NEARESI_5%_____

SECTION_III-PHYSICAL_DATA

BOILING RANGE: 243-284F VAPOR DENSITY: HEAVIER LIGHTER THAN AIR

(117-140)

EVAPORATION RATE: FASTER

% VOLATILE: 58% WT/GAL: 19.3 LBS.

(ETHER=1)

SLOWER

(BY VOLUME)

SECTION IV-FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: OSHA CLASS IC FLASHPOINT: 84.5F (TCC)

FLAMMABLE LIQUID

EXTINGUISHING MEDIA: NFPA CLASS B EXTIGUISHERS (CARBON DIOXIDE, DRY CHEMICAL OR FOAM)

SPECIAL FIRE FIGHTING PROCEDURES:

FULL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATI SHOULD BE USED. WATER SPRAY MAY BE INEFFECTIVE. WATER MAY BE USED TO CO. CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE AUTOIGNITION (EXPLOSION. IF WATER IS USED. FOG NOZZLES ARE PREFERRED

UNUSUAL FIRE AND EXPLOSION HAZARDS:

KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT. ELECTRICAL EQUIPMEN SPARKS AND OPEN FLAME. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTRE HEAT. DO NOT APPLY TO HOT SURFACES.

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS AND RELATED MATERIALS (Approved by U. S. Department of Labor: Essentially Similar to Form OSHA-20)									
	Section I								
MANUFACTURERS NAME Rust-Oleum Corporation			•						
STREET ADDRESS " 11 Hawthorn Parkway cmy	STATE, AND ZIP	cone Vern	on Hills,	Illinois	6 0061				
EMERGENCTTELEPHONE NO. (312)367-7700 WIFORMATION TELEPHONE NO. (312)367-7700 PRODUCT CLASS Polyamide, Epoxy; High Gloss MANUFACTURERS CODE IDENTIFICATION 9392 TRADE NAME Heavy Duty Epoxy White (TOPCORT)									
Section II — HAZ	ARDOUS	INGREDIE	NTS	,					
WGREDIENT	PERCENT	PPM T	mg/f4*	LEL	VAPOR PRESSUR				
Xylene Cellosolve Methyl Cellosolve Hi-Sol 135	21.36 10.7 4.4 1.7	100 100 25 100		1.0	9.5 5.3 9.7 <1				

Section III - PHYSICAL DATA

BOILING RANGE 281 - 410° F. WAPOR DENSITY

X HEAVIER.

LIGHTER. THAN AIR

FASTER X SLOWER. THAN ETHER

PERCENT VOLATILE BY VOLUME

56.0

WEIGHT PER BALLON

10.39 lbs.

Section IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION

Red Label, Flammable, Less than 100° F.

FLASH POINT

Lowest Flashing Component 81 F.

LEL See II

EXTINGUISHING MEDIA

Use National Fire Protection Association (NFPA) Class B extinguishers (carbon dioxide, dry chemical or foam) designed to extinguish NFPA Class 1B liquid fires.

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. Do not apply to hot surfaces.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.

NPCA 1

IPL # 20014

SECTION I

MAKUFACTURERS HAVE:

SIKKENS AEROSPACE FINISHES

DIVISION OF AKZO COATINGS AMERICA INC.

STREET ADDRESS:

20846 S. NORMANDIE AVE

TORRANCE, CA 90502

EMERGENCY TELEPHONE NO.:

(213) 320-6800

MANUFACTURERS CODE IDENTIFICATION: 443030001

TRADE NAME:

. EPOXY TOPCOAT GLOSS - WHIT

Use with Catalyst X-304

SECTION II - HAZARDOUS INGREDIENTS

					¥	TLV	*	PEI.	. *	VAPOR .
HAZARDOUS INGREDIENTS:	C.A.S. NO.	*	PCT *		*	PPH	HG/H3 *	PPH	MG/H3 *	PRESS
		*B	*T# YE		*		*		*	
BUTYL ACETATE	123 -86-4	*	⟨5 ∗		*	150.00	710.00*	150.00	710.00*	8.0
ester solvent		¥	*		*		. *		*	
2-BUTOXYETHANOL	111-76-2	*	(5*	SKIN	*	25,00	120.00*	50.00	240.00*	•6
BUTYL CELLOSOLVE		¥	*		*		*		*	
2-BUTOXYETHYL ACETATE	112-07-2	*	(5*		*		 *		 *	•3
BUTYL CELLOSOLVE ACETATE		¥	*		¥		*		*	
HETHYL ETHYL KETONE	78 -9 3-3	# 2	20-35*		*	200.00	590.00*	200.00	590.00*	70.0
MEK		¥	*		*		*		×	
TOLUENE	108-88-3	* 1	0-25×		¥	100.00	375.00*	200.00	×	22.0
TOLUOL		#	*		Ħ		*		*	
TITANIUM DIOXIDE	13463-67-7	¥2	20-35*		¥		5.00×		15.00*	NA
XYLENE	´ 1330-20-7	*	(5 *		*	100.00	435.00*	100.00	435,00*	9.5
XYLOL		¥	*		#		¥		*	

SECTION III - PHYSICAL DATA

BOILING RANGE!

175 - 367 DEG. F

VAPOR DENSITY VS. AIR: HEAVIER THAN AIR

EVAPORATION RATE VS. ETHER:

SLOWER

PERCENT VOLATILE BY VOLUME:

61.1

WEIGHT PER GALLON: 9.86 LBS.

Maximum Mixed VOC = 589 g/l = 49.8 % by weight

DATE OF PREP: 1/26/88 IPL # 20065

SECTION I

MANUFACTURERS NAME: SIKKENS AEROSPACE FINISHES DIVISION OF AKZO COATINGS AMERICA INC. STREET ADDRESS: 20846 S. NORMANDIE AVE. TORRANCE, CA 90502

EMERGENCY TELEPHONE NO.: (213) 320-6800

The California Safe Drinking Water and Toxic Act of 1986, Proposition 65, requires that potentially exposed individuals be informed of the presents of a chemical that has been determined to cause cancer or reproductive harm. As part of Akzo Coatings' responsibility under this law such notice is hereby given.

MANUFACTURERS CODE IDENTIFICATION: X 304

TRADE NAME:

EPOXY CATALYST - COMPOSITE

SECTION II - HAZARDOUS INGREDIENTS

. •				#	TLV	*	PEL	. *	vapor
HAZARDOUS INGREDIENTS:	C.A.S. NO.	* PCT *	;	*	PPH	MG/M3 *	PPH	MG/H3 *	PRESS
		BY WT		¥		*		*	
BUTYL ACETATE	123-86-4	*20-35*		* :	150.00	710.00*	150.00	710.00*	8.0
ester solvent		* *		¥		*		*	
2-BUTOXYETHANOL	111-76-2	*10-25*	SKIN	*	25.00	120,00*	50.00	240.00*	•6
BUTYL CELLOSOLVE		* *	,	¥		*		*	
N-BUTYL ALCOHOL	71-36-3	*20-35*	SKIN	*	50.00	150.00*	100.00	300.00*	4.4
N-BUTANOL		* *		*		*		*	
NETHYL ETHYL KETONE	78-93-3	*20~35*		* :	200.00	590.00*	200.00	590.00*	70.0
HEK		* *		¥		*		*	
DIETHYLENE TRIANINE	111-40-0	* 5-20*	SKIN	*	1.00	4.00×		 *	22.0
TOLLIENE	108-88-3	* (5*		* 3	100.00	375.00×	200.00	×	22.0
TOLUOL		* *		*		*		*	

SECTION III - PHYSICAL DATA

OILING RANGE:

175 - 405 DEG. F

VAPOR DENSITY VS. AIR: HEAVIER THAN AIR

VAPORATION RATE VS. ETHER: SLOWER

PROCENT VOLATILE BY VOLUME: 83.7

WEIGHT PER GALLON: 7.31 LBS.

Maximum Mixed VOC: See Base

Best Available Copy

SECTION I

MANUFACTURERS NAME: AKZO COATINGS INC. AEROSPACE FINISHES STREET ADDRESS: 434 WEST MEATS AVE. DRANGE, CA 92665

EMERGENCY TELEPHONE NO.: (313) 589-3660 (8:00AM-4:45PM EASTERN TIME ZONE)

(313) 855-7313 (AFTER HOURS)

TRADE NAME:

GREEN EPOXY PRIMER

The California Safe Drinking Water and Toxic Act of 1986, Proposition 65, requires that potentially exposed individuals be informed of the presence of a chemical that has been determined to cause cancer or reproductive harm. As part of Akzo Coatings' responsibility under this law such notice is hereby given

714-637-1750

Renter Freedman 463060003

Gory Register HANUFACTURERS CODE IDENTIFICATION:

Use with Catalyst X-306

SECTION II - HAZARDOUS INGREDIENTS

					¥	TLV	*	PEL	. *	VAPOR
HAZARDOUS INGREDIENTS:	C.A.S. NO.	* F	CT *		×	PPK	MG/M3 *	PPH	MG/M3 *	PRESS
		BY	(WT		¥		*		*	
XYLENE	1330-20-7	*2 6	9-35*		¥	100.00	435.00*	100.00	435.00*	9.5
XYLOL		*	*		¥		*		¥	
2-ETHOXYETHYL ACETATE	111-15-9	*	(5*	ZKIN	¥	5.00	27.00*		¥	2.0
CELLOSOLVE ACETATE		*	*		¥		*		*	
CALCIUN CHROMATE	13765-19-0	*	(5 *		¥		.05 ∗		.50∗	NA
ETHYL BENZENE	100-41-4	*	(5*		*	100.00	435.00*	100.00	435.00*	10.0
AROHATIC SOLVENT		*	*		¥		*		*	
LEAD CHRONATE-LEAD SULFATE	1344-37-2	*	(5*		¥		.05*		*	NA
CHRONE YELLOW		*	*		¥		*		*	
HETHYL ETHYL KETONE	78-93-3	*16	9-25 *		¥	200.00	590.00*	200.00	590.00*	70.0
WEK	•	*	*		¥		*		*	
HETHYL ISOBUTYL KETONE	108-10-1	* 5	5−20∗		*	50.00	205.00*	100.00	410.00*	16.0
HIBK		*	*		¥		*		*	
TOLUENE	108-88-3	¥	(5*		¥	100.00	375. 00 *	200. 0 0	X	22.θ
TOLUOL 2.	1.	*	¥		¥		* *		¥	
TITANIUH DIOXIDE	13463-67-7	* 5	5−20∗		¥		10.00*		15.00*	NA
TALC	14807-96-6	*15	5-30*		¥		2.00*		*	NA
HYDROUS MAGNESIUM SILICATE		¥	¥		¥		*		*	

SECTION III - PHYSICAL DATA

BOILING RANGE: 175 - 313 DEG. F VAPOR DENSITY VS. AIR: HEAVIER THAN AIR

EVAPORATION RATE VS. ETHER: SLOWER

PERCENT VOLATILE BY VOLUME:

WEIGHT PER GALLON:

73.4

9.59 LBS.

Maximum Mixed VOC: 650 = 56.5% by weight (grams/liter)

SECTION I

MANUFACTURERS NAME: AKZO COATINGS INC. AEROSPACE FINISHES STREET ADDRESS: 434 WEST HEATS AVE. ORANGE, CA 92665

The California Safe Drinking Water and Toxic Act of 1986, Proposition 65, requires that potentially exposed individuals be informed of the presence of a chemical that has been determined to cause cancer or reproductive harm. As part of Akzo Coatings' responsibility under this law such notice is hereby given

EMERGENCY TELEPHONE NO.: (313) 589-3660 (8:00AH-4:45PH EASTERN TIME ZONE) (313) 855-7313 (AFTER HOURS)

MANUFACTURERS CODE IDENTIFICATION: 306

TRADE NAME:

CAT. FOR 463-6-3 OR 463-6-5

SECTION II - HAZARDOUS INGREDIENTS

			•	
		* TLV	*	PEL * VAPOR
HAZARDOUS INGREDIENTS:	C.A.S. NO. * PCT *	* PPH	NG/N3 *	PPH MG/M3 * PRESS
· ·	*BY WT*	*	* *	*
ISOPROPYL ALCOHOL	67-63-0 * 40-55 *	* 400.00	980.00* 40	0.00 980.00* 33.0
· ISOPROPANOL	* *	*	* *	*
XYLENE	1330-20-7 *40-55*	* 100.00	435.00* 10	0.00 435.00* 9.5
XYI NI	* *	*	¥	*

SECTION III - PHYSICAL DATA

BOILING RANGE:

180 - 498- DEG. F

VAPOR DENSITY VS. AIR: HEAVIER THAN AIR

EVAPORATION RATE VS. ETHER:

SLOWER

PERCENT VOLATILE BY VOLUME:

90.6

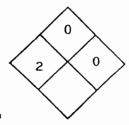
WEIGHT PER GALLON:

Maximum Mixed VOC: See Base

(grams/liter)

7.00 LBS.





MATERIAL SAFETY DATA SHEET

PRODUCT TRADE NAME

Alodine 1201

D.O.T. PROPER SHIPPING NAME

Not Regulated

D.O.T. HAZARD CLASSIFICATION

None

TECHNICAL CONTACT (NAME)

Charles Gruszka

TELEPHONE NUMBER

(215) 628-1364

EMERGENCY NUMBER (215) 628-1000

1 HAZARDOUS INGREDIENTS

MATERIAL

CAS NO.

. CONTENT(% WT/WT)

HAZARD

TLV

Chromic Acid

1333-82-0

~1

Carcinogen NTP

 0.05mg/M^3

2 PHYSICAL DATA

APPEARANCE

Amber liquid

SOLUBILITY IN WATER

Complete

ODOR

None

pH OF CONCENTRATE

BOILING POINT 'F

960° F

N/A >212°F.

SPECIFIC GRAVITY

@ 60°F

1.00-1.02

OTHER:

N/A

3 FIRE AND EXPLOSION DATA

FLASH POINT None

TEST METHOD

EXTINGUISHING MEDIA

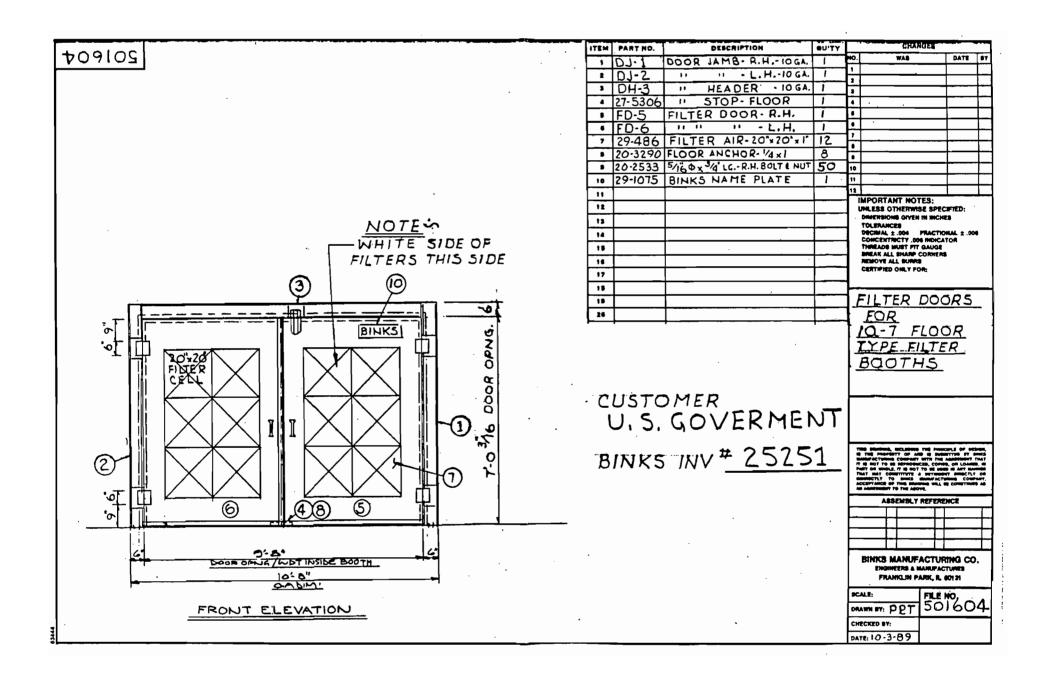
Water

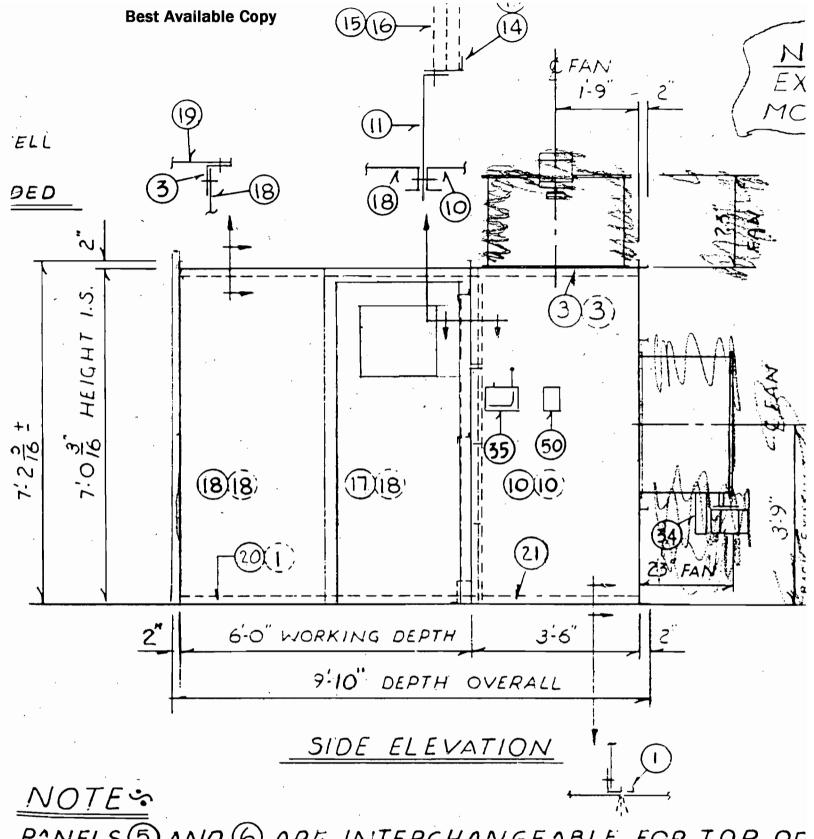
UNUSUAL FIRE OR EXPLOSION HAZARDS If organic material such as rags, paper, sawdust, etc., become saturated with this material and then dried, spontaneous combustion may result.

SPECIAL FIRE FIGHTING PROCEDURES

None

SPRAY BOOTH DESIGN DRAWINGS



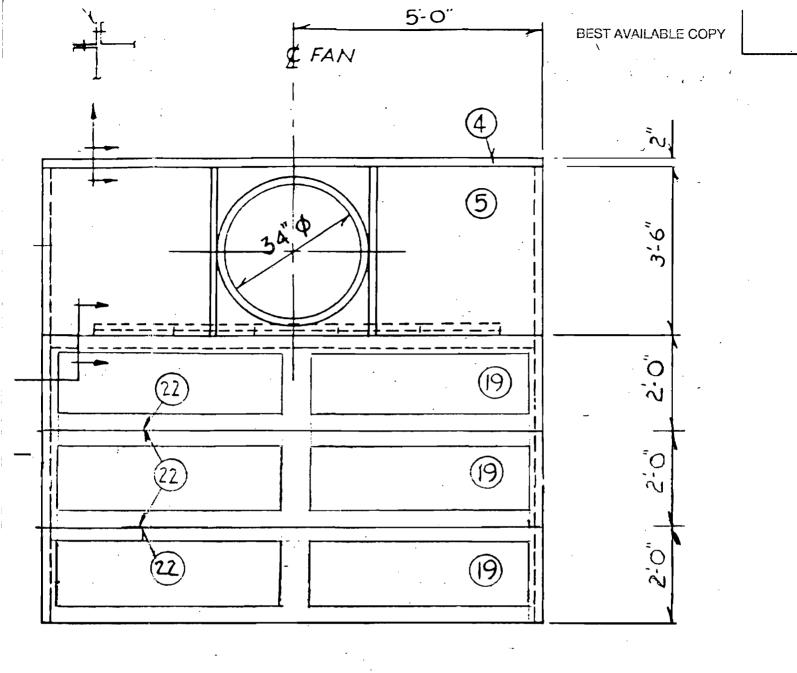


PANELS DAND 6 ARE INTERCHANGEABLE FOR TOP OR LEVEL AND ANCHOR ITEMS () 2 AND 10 TO FLOOR WITH

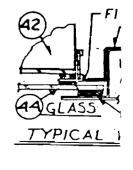
1 AVERAGE FACE VELOCITY 130 F.P.M.

FRONT ELEVATION

10'-0"



PLAN VIEW



FAN 5-0"

NOTE:

2 FILTERS AND

INISTALL COL

