PS Form	SENDER: Complete items 1, 2, and 3. Add your address in the "RET reverse."	URN TO" space on
Form 3811, Jan. 1979	1. The following service is requested (check one.) Show to whom and date delivered	
RETURN RECEIPT	(CONSULT POSTMASTER FOR FEES)	
	2. ARTICLE ADDRESSED TO:	
	Mr. Edward B. Crowell P. O. Box 40	
		32830
	3. ARTICLE DESCRIPTION: REGISTERED NO. CERTIFIED NO.	INSURED NO.
T, R	0155801	
REGI	(Always obtain signature of addressee or agent)	
3.15	I have received the article described above.	
23.5	SIGNATURE Addresses Authorize	d agent
, IN	Budge	
, REGISTERED, INSURED AND CERTIFIED MA	DATE OF DELIVERY	POSTMARK
	5. ADDRESS (Complete only if requested)	
ERTI		
FIED MA	6. UNABLE TO DELIVER BECAUSE:	CLERK'S INITIALS
F		☆GPO: 1979-300-45

No. 0155801

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL

(See Reverse) MA. P.O., STATE AND ZIP CODE POSTAGE CERTIFIED FEE ¢ CONSULT POSTMASTER FOR FEES SPECIAL DELIVERY ¢ RESTRICTED DELIVERY ¢ OPTIONAL SERVICES RN RECEIPT SERVICE SHOW TO WHOM AND DATE DELIVERED SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY TOTAL POSTAGE AND FEES \$ POSTMARK OR DATE 1/11/85

PS Form 3800, Apr. 1976

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

January 8, 1985

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. Edward B. Crowell Vice President - Facilities Division Walt Disney World Company, Inc. Post Office Box 40 Lake Buena Vista, Florida 32830

Dear Mr. Crowell:

Enclosed are Permit Numbers AC 48-75833, AC 48-75834, AC 48-75835, AC 48-75836, AC 48-75837, and AC 48-75848. dated January 7, 1985, to Walt Disney World Company, Inc. issued pursuant to Section 403, Florida Statutes.

Acceptance of these permits constitutes notice and agreement that the department will periodically review these permits for compliance, including site inspections where applicable, and may initiate enforcement actions for violation of the conditions and requirements thereof.

Sincerely,

C. H. Fancy, P.E.

Deputy Chief

Bureau of Air Quality

Management

CHF/pa

Enclosure

cc: Fred Harden, Reedy Creek Improvement District Charles Collins, DER St. Johns River District

Final Determination

Walt Disney World Company, Inc.

Orange County
Lake Buena Vista, Florida

NSA Paint Shop Paint Booths 1, 2, 3; NSA Staff Shop Spray Booths 1 and 2; Water Wash Plastisol Booth Number 1

Permit Numbers: AC 48-75833

AC 48-75834 AC 48-75835 AC 48-75836 AC 48-75837 AC 48-75838

Florida Department of Environmental Regulation Bureau of Air Quality Management Central Air Permitting

Final Determination

The applications for permits from Walt Disney World Company, Inc. to construct NSA Paint Shop Paint Booths 1, 2, and 3; NSA Staff Shop Spray Booths 1 and 2; and Water Wash Plastisol Booth Number 1 at the company's facility in Orange County, Florida have been reviewed by the Bureau of Air Quality Management. Public notice of the department's Intent to Issue the construction permits was published in the Orlando Sentinel on November 28, 1984.

Copies of the preliminary determination have been available for public inspection at the department's St. Johns River District office in Orlando and the Bureau of Air Quality Management office in Tallahassee.

There were no letters of response as a result of the public notice period.

The final action of the department will be to issue the permits as noticed during the public notice period.

The Orlando Sentinel

Published Daily Orlando, Orange County, Florida

State of Florida COUNTY OF ORANGE

Before the undersigned authority personally appeared.

Nancy A. Puglia who on oath says that she is the Legal Advertising Representative of the Orlando Sentinel, a Daily newspaper published at Orlando, in Orange County, Florida; that the attached copy of advertisement, being aProposed Agency Action Permit to Walt Disney World Company, Inc. was published in said newspaper in the issues of.... Nov. 28, 1984

Affiant further says that the said Orlando Sentinel is a newspaper published at Orlando, in said Orange County, Florida, and that the said newspaper has heretofore been continuously published in said Orange County, Florida, each Week Day and has been entered as secondclass mail matter at the post office in Orlando, in said Orange County, Florida for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that he/she 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_

28 t h

November

Notary Public, State of Florida at Large My Commission Expires July 13, 1985

Bonded by American Fire & Casualty Co.

FORM NO. AD-262

VERTISING CHARGE

State of Florida Department of Environmental Regulation Notice of Proposed Agency Action

Regulation

Notice of Proposed Agency Action on Permit Applications

The Department of Environmental Regulation gives notice of its intent to issue permits to Walt Disney World Company, Inc. to construct a three paint shop paint booths, two staff shop spray booths, and one water wash plastisol booth with drying oven at the Central Facilities Shop building, Facilities Way, Bay Lake, Orange County, Florida. A determination of best available control technology (BACT) was not required.

Persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding in accordance with Section 120.57, Florida Statutes. The petition must conform to the requirements of Chapters 17-103 and 28-5, Florida Administrative Code, and must be filled.

Chapters 17-103 and 28-5, Florida Administrative Code, and must be filled (received) In the Office of General Counsel of the Department at 260 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32301, within fourteen (14) days of paublication of this notice. Faiture to file a request for hearing within this time period shall constitutes a wolver of any od shall constitutes a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida

ing) under Section 120.57, Florida statutes.

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 preliminary statement. Therefore, persons who may not object to the proposed agency action may wish to intervene in the proceeding. A petition for intervention must be filed pursuant to Model Rule 28-5.207 at least tive (5) days before the final hearing and be filed with the hearing officer if one has been assigned at the Division of Administrative Hearings, Department of Administrative Hearings, Department of Administrative Therefore assigned, the petition is to be filed with the Department's Office of General Counsel, 2600 Blair Stone Road. al Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32301. Failure to petition to intervene within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes

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

at:
Dept. of Environmental Regulation
St. Johns River District
3319 Maguire Bivd., Suite 232
Orlando, Florida 32803
Dept. of Environmental Regulation

Dept. of Environmental Regulation Bureau of Air Quality Management 2600 Blair Stone Road Tallahassee, Florida 32301 Any person may send written comments on the proposed action to Mr. Bill Thomas at the department's Tallahassee address. All comments mailed within 30 days of the publication of this notice will be considered in the department's final determination. LS-642(10) Nov. 28, 1984 LS-642(10)

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

PERMITTEE:

Walt Disney World Company, Inc. Expiration Date: June 1, 1985

Post Office Box 40

Lake Buena Vista, Florida 32830 Latitude/Longitude:

Permit Number: AC 48-75833

County: Orange

28° 25' 32"N/ 81° 34' 36"W

Project: NSA Paint Spray Booth No. 1

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

For the construction of a spray booth which will be used to coat a variety of objects including vehicles, wooden furniture, trash cans, ride components, posts and frames using two part polyurethane, two part acrylic, epoxy primers and other primer coating systems. The booth will be equipped with two Binks model 30-4313 exhaust fans and Binks model 29-893 paint arrestor type filters.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, specific conditions.

Attachments are as follows:

- Applications to construct an Air Pollution Source, DER form 1. 17-1.202(1).
- 2. C. H. Fancy's letter dated October 17, 1983
- Walt Disney World's letter dated December 6, 1983
- 4. C. H. Fancy's letter dated January 3, 1984
- 5. Walt Disney World's letter dated May 1, 1984
- 6. C. H. Fancy's letter dated June 13, 1984
- 7. Walt Disney World's letter dated July 13, 1984

PERMITTEE:

I. D. Number:

Walt Disney World Company, Inc. Permit Number: AC 48-75833

Expiration Date: June 1, 1985

GENERAL CONDITIONS:

- 1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
- 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. Nor 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 does not constitute 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, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, 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:

I. D. Number:
Walt Disney World Company, Inc.Permit Number: AC 48-75833

Expiration Date: June 1, 1985

GENERAL CONDITIONS:

- 6. The permittee shall at all times 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, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
 - a. Having access to and copying any records that must be kept under the conditions of the permit;
 - Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. Sampling or monitoring 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 notify and provide the department with the following information:
 - a. a description of and cause of non-compliance; and
 - b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:

I. D. Number:

Walt Disney World Company, Inc. Permit Number: AC 48-75833

Expiration Date: June 1, 1985

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 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 arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.
- 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 17-4.12 and 17-30.30, 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 is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
- 13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 - () Determination of Prevention of Significant Deterioration (PSD)
 - () Compliance with New Source Performance Standards.
- 14. The permittee shall comply with the following monitoring and record keeping requirements:
 - a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:

I. D. Number:
Walt Disney World Company, Inc.Permit Number: AC 48-75833
Expiration Date: June 1, 1985

GENERAL CONDITIONS:

- b. The permittee shall retain 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), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be 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 date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.
- 15. 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 submitted or corrected promptly.

SPECIFIC CONDITIONS:

- The hours of operation shall not exceed 4160 hours per year.
- 2. The allowable particulate emission rate shall not exceed .125 pounds per hour or 0.19 tons per year.

PERMITTEE:

I. D. Number:

Walt Disney World Company, Inc.Permit Number: AC 48-75833

Expiration Date: June 1, 1985

SPECIFIC CONDITIONS:

- 3. There shall be no visible emissions, initially demonstrated in accordance with DER Method 9 (Rule 17-2.700(6)(a)9, FAC).
- 4. Allowable volatile organic compound emissions shall not a exceed 0.89 pounds per hour or 2.82 tons per year.
- 5. The volatile organic compound content of all coatings and solvents used in this booth, demonstrated by manufacturer's specification or EPA Method 24, shall be submitted to the St. Johns River District office.
- 6. The use of all coatings and solvents shall be recorded daily and shall be submitted quarterly to the St. Johns River District office.
- 7. Compliance tests, as specified by Specific Conditions 3 and 5 and in accordance with FAC Rule 17-2.700, shall be submitted to DER's St. Johns River District office within 45 days after completion of the tests.
- 8. Fifteen (15) days notification of the compliance tests to DER's St. Johns River District office is required.
- 9. After satisfactory completion of the initial compliance test and prior to ninety (90) days before the expiration of this permit, a complete application for an operating permit shall be submitted to the St. Johns River District office. The permittee may continue to operate in compliance with all terms of this construction permit until its expiration date or the issuance of an operating permit. The department may extend the expiration date of this constructon permit as authorized by Rule 17-2.210(1), FAC.

Issued this 7 day of an, 1985
STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

VICTORIA J TSCHINKEL, Secretary

page attached.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

PERMITTEE:

Permit Number: AC 48-75834 Walt Disney World Company, Inc. Expiration Date: June 1, 1985

Post Office Box 40

County: Orange

Lake Buena Vista, Florida 32830 Latitude/Longitude: 28° 25' 32"N/

81° 34' 36"W

Project: NSA Paint Spray Booth No. 2

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

For the construction of a spray booth which will be used to coat a variety of objects including vehicles, wooden furniture, trash cans, ride components, posts and frames using two part polyurethane, two part acrylic, epoxy primers and other primer coating systems. The booth will be equipped with two Binks model 30-4418 exhaust fans and Binks model 29-893 paint arrestor type filters.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, specific conditions.

Attachments are as follows:

- Applications to construct an Air Pollution Source, DER form 1. 17-1.202(1).
- 2. C. H. Fancy's letter dated October 17, 1983
- 3. Walt Disney World's letter dated December 6, 1983
- C. H. Fancy's letter dated January 3, 1984 4.
- 5. Walt Disney World's letter dated May 1, 1984
- 6. C. H. Fancy's letter dated June 13, 1984
- 7. Walt Disney World's letter dated July 13, 1984

PERMITTEE:

I. D. Number:

Walt Disney World Company, Inc. Permit Number: AC 48-75834

Expiration Date: June 1, 1985

GENERAL CONDITIONS:

- 1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
- 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. Nor 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 does not constitute 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, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, 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:

I. D. Number:

Walt Disney World Company, Inc.Permit Number: AC 48-75834

Expiration Date: June 1, 1985

GENERAL CONDITIONS:

- The permittee shall at all times 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, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
 - a. Having access to and copying any records that must be kept under the conditions of the permit;
 - Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. Sampling or monitoring 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 notify and provide the department with the following information:
 - a. a description of and cause of non-compliance; and
 - b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:

I. D. Number:

Walt Disney World Company, Inc. Permit Number: AC 48-75834

Expiration Date: June 1, 1985

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 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 arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.
- 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 17-4.12 and 17-30.30, 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 is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
- 13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 - () Determination of Prevention of Significant Deterioration (PSD)
 - () Compliance with New Source Performance Standards.
- 14. The permittee shall comply with the following monitoring and record keeping requirements:
 - a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:

I. D. Number:

Walt Disney World Company, Inc.Permit Number: AC 48-75834

Expiration Date: June 1, 1985

GENERAL CONDITIONS:

- b. The permittee shall retain 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), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be 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 date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.
- 15. 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 submitted or corrected promptly.

SPECIFIC CONDITIONS:

- 1. The hours of operation shall not exceed 4160 hours per year.
- 2. The allowable particulate emission rate shall not exceed 0.250 pounds per hour or 0.38 tons per year.

PERMITTEE:

I. D. Number:
Walt Disney World Company, Inc.Permit Number: AC 48-75834
Expiration Date: June 1, 1985

SPECIFIC CONDITIONS:

- 3. There shall be no visible emissions, initially demonstrated in accordance with DER Method 9 (Rule 17-2.700(6)(a)9, FAC).
- 4. Allowable volatile organic compound emissions shall not a exceed 1.77 pounds per hour or 5.65 tons per year.
- 5. The volatile organic compound content of all coatings and solvents used in this booth, demonstrated by manufacturer's specification or EPA Method 24, shall be submitted to the St. Johns River District office.
- 6. The use of all coatings and solvents shall be recorded daily and shall be submitted quarterly to the St. Johns River District office.
- 7. Compliance tests, in accordance with FAC Rule 17-2.700, shall be submitted to DER's St. Johns River District office within 45 days after completion of the tests.
- 8. Fifteen (15) days notification of the compliance tests to DER's St. Johns River District office is required.
- 9. After satisfactory completion of the initial compliance test and prior to ninety (90) days before the expiration of this permit, a complete application for an operating permit shall be submitted to the St. Johns River District office. The permittee may continue to operate in compliance with all terms of this construction permit until its expiration date or the issuance of an operating permit. The department may extend the expiration date of this constructon permit as authorized by Rule 17-2.210(1), FAC.

Issued this 2 day of km, 1985

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

VICTORIA J. TSCHINKEL, Secretary

page attached.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM VICTORIA J. TSCHINKEL

PERMITTEE:

Permit Number: AC 48-75835 Walt Disney World Company, Inc. Expiration Date: June 1, 1985

Post Office Box 40

Lake Buena Vista, Florida 32830 Latitude/Longitude:

County: Orange 28° 25' 32"N/

81° 34' 36"W

Project: NSA Paint Spray Booth No. 3

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

For the construction of a spray booth which will be used to coat a variety of objects including vehicles, wooden furniture, trash cans, ride components, posts and frames using two part polyurethane, two part acrylic, epoxy primers and other primer coating systems. The booth will be equipped with two Binks model 30-4418 exhaust fans and Binks model 29-893 paint arrestor type filters.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, specific conditions.

Attachments are as follows:

- Applications to construct an Air Pollution Source, DER form l. 17-1.202(1).
- 2. C. H. Fancy's letter dated October 17, 1983
- 3. Walt Disney World's letter dated December 6, 1983
- 4. C. H. Fancy's letter dated January 3, 1984
- 5. Walt Disney World's letter dated May 1, 1984
- 6. C. H. Fancy's letter dated June 13, 1984
- 7. Walt Disney World's letter dated July 13, 1984

PERMITTEE:

I. D. Number:

Walt Disney World Company, Inc. Permit Number: AC 48-75835

Expiration Date: June 1, 1985

GENERAL CONDITIONS:

- 1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
- 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. Nor 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 does not constitute 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, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, 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:

I. D. Number:

Walt Disney World Company, Inc.Permit Number: AC 48-75835

Expiration Date: June 1, 1985

GENERAL CONDITIONS:

- 6. The permittee shall at all times 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, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
 - a. Having access to and copying any records that must be kept under the conditions of the permit;
 - Inspecting the facility, equipment, practices, or operations regulated or required under this permit;
 and
 - c. Sampling or monitoring 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 notify and provide the department with the following information:
 - a. a description of and cause of non-compliance; and
 - b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:

I. D. Number:

Walt Disney World Company, Inc. Permit Number: AC 48-75835

Expiration Date: June 1, 1985

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 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 arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.
- 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 17-4.12 and 17-30.30, 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 is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
- 13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 - () Determination of Prevention of Significant Deterioration (PSD)
 - () Compliance with New Source Performance Standards.
- 14. The permittee shall comply with the following monitoring and record keeping requirements:
 - a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:

I. D. Number:

Walt Disney World Company, Inc.Permit Number: AC 48-75835

Expiration Date: June 1, 1985

GENERAL CONDITIONS:

- b. The permittee shall retain 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), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be 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 date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.
- 15. 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 submitted or corrected promptly.

SPECIFIC CONDITIONS:

- 1. The hours of operation shall not exceed 4160 hours per year.
- 2. The allowable particulate emission rate shall not exceed 0.250 pounds per hour or 0.38 tons per year.

PERMITTEE:

I. D. Number:

Walt Disney World Company, Inc. Permit Number: AC 48-75835

Expiration Date: June 1, 1985

SPECIFIC CONDITIONS:

- There shall be no visible emissions, initially demonstrated 3. in accordance with DER Method 9 (Rule 17-2.700(6)(a)9, FAC).
- Allowable volatile organic compound emissions shall not a 4. exceed 3.54 pounds per hour or 5.65 tons per year.
- 5. The volatile organic compound content of all coatings and solvents used in this booth, demonstrated by manufacturer's specification or EPA Method 24, shall be submitted to the St. Johns River District office.
- 6. The use of all coatings and solvents shall be recorded daily and shall be submitted quarterly to the St. Johns River District office.
- Compliance tests, in accordance with FAC Rule 17-2.700, shall 7. be submitted to DER's St. Johns River District office within 45 days after completion of the tests.
- Fifteen (15) days notification of the compliance tests to 8. DER's St. Johns River District office is required.
- 9. After satisfactory completion of the initial compliance test and prior to ninety (90) days before the expiration of this permit, a complete application for an operating permit shall be submitted to the St. Johns River District office. permittee may continue to operate in compliance with all terms of this construction permit until its expiration date or the issuance of an operating permit. The department may extend the expiration date of this constructon permit as authorized by Rule 17-2.210(1), FAC.

Issued this 7 day of fun, 1985

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

VICTORIA J. TSCHINKEL, Secretary

page attached.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

PERMITTEE:

Walt Disney World Company, Inc. Expiration Date: June 1, 1985 Post Office Box 40

Lake Buena Vista, Florida 32830 Latitude/Longitude:

Permit Number: AC 48-75836

County: Orange

28° 25' 32"N/

81° 34' 36"W

Project: NSA Staff Shop Booth No. 1

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

For the construction of a spray booth which will be used to spray polyester resin, lacquer based coatings and polyvinyl alcohol on fiberglass objects and molds. The booth will be a Binks model PPF with model 30-800 fans. The particulate filters will have an efficiency of 80% for lacquers and 95% for two part high particulate coating systems.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, specific conditions.

Attachments are as follows:

- 1. Applications to construct an Air Pollution Source, DER form 17-1.202(1).
- C. H. Fancy's letter dated October 17, 1983 2.
- 3. Walt Disney World's letter dated December 6, 1983
- 4. C. H. Fancy's letter dated January 3, 1984
- 5. Walt Disney World's letter dated May 1, 1984
- 6. C. H. Fancy's letter dated June 13, 1984
- 7. Walt Disney World's letter dated July 13, 1984

PERMITTEE:

Walt Disney World Company, Inc. Permit Number: AC 48-75836
Expiration Date: June 1, 1985

GENERAL CONDITIONS:

- 1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
- 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. Nor 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 does not constitute 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, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, 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:

I. D. Number:

Walt Disney World Company, Inc.Permit Number: AC 48-75836

Expiration Date: June 1, 1985

GENERAL CONDITIONS:

- 6. The permittee shall at all times 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, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
 - a. Having access to and copying any records that must be kept under the conditions of the permit;
 - Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. Sampling or monitoring 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 notify and provide the department with the following information:
 - a. a description of and cause of non-compliance; and
 - b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:

I. D. Number:

Walt Disney World Company, Inc. Permit Number: AC 48-75836

Expiration Date: June 1, 1985

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 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 arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.
- 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 17-4.12 and 17-30.30, 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 is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
- 13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 - () Determination of Prevention of Significant Deterioration (PSD)
 - () Compliance with New Source Performance Standards.
- 14. The permittee shall comply with the following monitoring and record keeping requirements:
 - a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:

I. D. Number:
Walt Disney World Company, Inc.Permit Number: AC 48-75836
Expiration Date: June 1, 1985

GENERAL CONDITIONS:

- b. The permittee shall retain 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), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be 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 date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.
- 15. 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 submitted or corrected promptly.

SPECIFIC CONDITIONS:

- The hours of operation shall not exceed 2080 hours per year.
- 2. The allowable particulate emission rate shall not exceed 0.02 pounds per hour or 0.02 tons per year.

PERMITTEE:

I. D. Number:

Walt Disney World Company, Inc.Permit Number: AC 48-75836

Expiration Date: June 1, 1985

SPECIFIC CONDITIONS:

- 3. There shall be no visible emissions, initially demonstrated in accordance with DER Method 9 (Rule 17-2.700(6)(a)9, FAC).
- 4. Allowable volatile organic compound emissions shall not a exceed 0.08 pounds per hour or 0.08 tons per year.
- 5. The volatile organic compound content of all coatings and solvents used in this booth, demonstrated by manufacturer's specification or EPA Method 24, shall be submitted to the St. Johns River District office.
- 6. The use of all coatings and solvents shall be recorded daily and shall be submitted quarterly to the St. Johns River District office.
- 7. Compliance tests, in accordance with FAC Rule 17-2.700, shall be submitted to DER's St. Johns River District office within 45 days after completion of the tests.
- 8. Fifteen (15) days notification of the compliance tests to DER's St. Johns River District office is required.
- 9. After satisfactory completion of the initial compliance test and prior to ninety (90) days before the expiration of this permit, a complete application for an operating permit shall be submitted to the St. Johns River District office. The permittee may continue to operate in compliance with all terms of this construction permit until its expiration date or the issuance of an operating permit. The department may extend the expiration date of this constructon permit as authorized by Rule 17-2.210(1), FAC.

Issued this 7 day of fam., 1985

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

VICTORIA J. TSCHINKEL, Secretary

_page attached.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

PERMITTEE:

Walt Disney World Company, Inc. Expiration Date: June 1, 1985

Post Office Box 40

Lake Buena Vista, Florida 32830 Latitude/Longitude:

Permit Number: AC 48-75837

County: Orange

28° 25' 32"N/

81° 34' 36"W

Project: NSA Staff Shop Spray

Booth No. 2

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

For the construction of a spray booth which will be used to spray lacquer based coatings and polyvinyl alcohol on fiberglass objects and molds. This built in spray booth will be equipped with a New York model 548-1 blower and particulate filters with an efficiency of 80% for lacquers and 95% for two part high particulate coating systems.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, specific conditions.

Attachments are as follows:

- 1. Applications to construct an Air Pollution Source, DER form 17-1.202(1).
- 2. C. H. Fancy's letter dated October 17, 1983
- 3. Walt Disney World's letter dated December 6, 1983
- 4. C. H. Fancy's letter dated January 3, 1984
- 5. Walt Disney World's letter dated May 1, 1984
- 6. C. H. Fancy's letter dated June 13, 1984
- 7. Walt Disney World's letter dated July 13, 1984

PERMITTEE:

I. D. Number:

Walt Disney World Company, Inc. Permit Number: AC 48-75837

Expiration Date: June 1, 1985

GENERAL CONDITIONS:

- 1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
- 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. Nor 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 does not constitute 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, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, 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:

I. D. Number:

Walt Disney World Company, Inc.Permit Number: AC 48-75837

Expiration Date: June 1, 1985

GENERAL CONDITIONS:

- The permittee shall at all times 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, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
 - a. Having access to and copying any records that must be kept under the conditions of the permit;
 - Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. Sampling or monitoring 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 notify and provide the department with the following information:
 - a. a description of and cause of non-compliance; and
 - b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:

I. D. Number:

Walt Disney World Company, Inc. Permit Number: AC 48-75837

Expiration Date: June 1, 1985

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 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 arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.
- 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 17-4.12 and 17-30.30, 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 is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
- 13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 - () Determination of Prevention of Significant Deterioration
 - () Compliance with New Source Performance Standards.
- 14. The permittee shall comply with the following monitoring and record keeping requirements:
 - a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:

I. D. Number:

Walt Disney World Company, Inc.Permit Number: AC 48-75837

Expiration Date: June 1, 1985

GENERAL CONDITIONS:

- b. The permittee shall retain 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), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be 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 date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.
- 15. 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 submitted or corrected promptly.

SPECIFIC CONDITIONS:

- 1. The hours of operation shall not exceed 2080 hours per year.
- 2. The allowable particulate emission rate shall not exceed 0.40 pounds per hour or 0.16 tons per year.

PERMITTEE:

I. D. Number:

Walt Disney World Company, Inc.Permit Number: AC 48-75837

Expiration Date: June 1, 1985

SPECIFIC CONDITIONS:

- 3. There shall be no visible emissions, initially demonstrated in accordance with DER Method 9 (Rule 17-2.700(6)(a)9, FAC).
- 4. Allowable volatile organic compound emissions shall not a exceed 0.61 pounds per hour or 0.63 tons per year.
- 5. The volatile organic compound content of all coatings and solvents used in this booth, demonstrated by manufacturer's specification or EPA Method 24, shall be submitted to the St. Johns River District office.
- 6. The use of all coatings and solvents shall be recorded daily and shall be submitted quarterly to the St. Johns River District office.
- 7. Compliance tests, in accordance with FAC Rule 17-2.700, shall be submitted to DER's St. Johns River District office within 45 days after completion of the tests.
- 8. Fifteen (15) days notification of the compliance tests to DER's St. Johns River District office is required.
- 9. After satisfactory completion of the initial compliance test and prior to ninety (90) days before the expiration of this permit, a complete application for an operating permit shall be submitted to the St. Johns River District office. The permittee may continue to operate in compliance with all terms of this construction permit until its expiration date or the issuance of an operating permit. The department may extend the expiration date of this constructon permit as authorized by Rule 17-2.210(1), FAC.

Issued this 7 day of fan. 1985

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

VICTORIA J. TECHINKEL, Secretary

page attached.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

PERMITTEE:

Permit Number: AC 48-75838 Walt Disney World Company, Inc. Expiration Date: June 1, 1985

Post Office Box 40

County: Orange

Lake Buena Vista, Florida 32830 Latitude/Longitude:

28° 25' 32"N/ 81° 34' 36"W

Project: Water Wash Plastisol Booth No. 1

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

For the construction of a Plastisol booth which will consist of a spray booth and curing oven. The spray booth will be a Binks water wash type equipped with a fan and a no pump dyna-precipitator water wash filtering system. The curing oven will be equipped with a fan and be fired by natural gas with an exit stack temperature of 350°F. The booth will be used to spray solvated vinyl plastisol on fiberglass objects and molds.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, specific conditions.

Attachments are as follows:

- Applications to construct an Air Pollution Source, DER form 1. 17-1.202(1).
- 2. C. H. Fancy's letter dated October 17, 1983
- 3. Walt Disney World's letter dated December 6, 1983
- C. H. Fancy's letter dated January 3, 1984 4.
- 5. Walt Disney World's letter dated May 1, 1984
- C. H. Fancy's letter dated June 13, 1984 6.
- 7. Walt Disney World's letter dated July 13, 1984

PERMITTEE:

I. D. Number:

Walt Disney World Company, Inc. Permit Number: AC 48-75838

Expiration Date: June 1, 1985

GENERAL CONDITIONS:

- 1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
- 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. Nor 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 does not constitute 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, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, 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:

Walt Disney World Company, Inc.Permit Number: AC 48-75838

Expiration Date: June 1, 1985

GENERAL CONDITIONS:

- 6. The permittee shall at all times 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, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
 - a. Having access to and copying any records that must be kept under the conditions of the permit;
 - Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. Sampling or monitoring 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 notify and provide the department with the following information:
 - a. a description of and cause of non-compliance; and
 - b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:

I. D. Number:
Walt Disney World Company, Inc. Permit Number: AC 48-75838
Expiration Date: June 1, 1985

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 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 arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.
- 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 17-4.12 and 17-30.30, 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 is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
- 13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 - () Determination of Prevention of Significant Deterioration (PSD)
 - () Compliance with New Source Performance Standards.
- 14. The permittee shall comply with the following monitoring and record keeping requirements:
 - a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:

I. D. Number:

Walt Disney World Company, Inc.Permit Number: AC 48-75838

Expiration Date: June 1, 1985

GENERAL CONDITIONS:

- b. The permittee shall retain 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), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be 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 date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.
- 15. 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 submitted or corrected promptly.

SPECIFIC CONDITIONS:

- 1. The hours of operation shall not exceed 2080 hours per year.
- 2. The allowable particulate emission rate shall not exceed 0.07 pounds per hour or 0.08 tons per year.

PERMITTEE:

I. D. Number:

Walt Disney World Company, Inc.Permit Number: AC 48-75838

Expiration Date: June 1, 1985

SPECIFIC CONDITIONS:

- 3. There shall be no visible emissions, initially demonstrated in accordance with DER Method 9 (Rule 17-2.700(6)(a)9, FAC).
- 4. Allowable volatile organic compound emissions shall not a exceed 0.49 pounds per hour or 0.53 tons per year.
- 5. The volatile organic compound content of all coatings and solvents used in this booth, demonstrated by manufacturer's specification or EPA Method 24, shall be submitted to the St. Johns River District office.
- 6. The use of all coatings and solvents shall be recorded daily and shall be submitted quarterly to the St. Johns River District office.
- Stack temperature shall not exceed 350°F.
- 8. Compliance tests, as specified by Specific Conditions 3 and 5 and in accordance with FAC Rule 17-2.700, shall be submitted to DER's St. Johns River District office within 45 days after completion of the tests.
- 9. Fifteen (15) days notification of the compliance tests to DER's St. Johns River District office is required.
- 10. After satisfactory completion of the initial compliance test and prior to ninety (90) days before the expiration of this permit, a complete application for an operating permit shall be submitted to the St. Johns River District office. The permittee may continue to operate in compliance with all terms of this construction permit until its expiration date or the issuance of an operating permit. The department may extend the expiration date of this constructon permit as authorized by Rule 17-2.210(1), FAC.

Issued this 7 day of fan, 1985
STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

VICTORIA J. TSCHINKEL, Secretary

___pages attached.

Best Available Copy

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

For Re And/Or To	uiting To District Offices o Other Than The Address	100
To:	Loctn.:	·
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Reply Optional []	Reply Required []	info. Only []
Date Due:		



Office of the Secretary

TO: Victoria J. Tschinkel

FROM: Clair Fancy

DATE: January 3, 1985

SUBJ: Approval of Attached Air Construction Permits

Attached for your approval and signature are six Air Construction Permits for Walt Disney World, Inc. The permits are for the construction paint spray booths at the company's existing facility in Lake Buena Vista, Orange County, Florida.

Day 90, after which the permits would be issued by default, is January 7, 1985.

The Bureau recommends your approval and signature.

CF/pa

Attachments

DER

10N 7 1985

BAOM

Check Sheet

Company Name: World Company
Permit Number: AC48-015838-015834-835-831-837-838
PSD Number: MAS 108 10 10 10 10 10 10 10 10 10 10 10 10 10
Permit Engineer:
Application: Initial Application
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:
DExtensions/Amendments/Modifications Deformed Lequest, untimely not granted



CERTIFIED

June 17, 1991

Mr. Clair Fancy
Bureau of Air Regulation
Florida Department of
Environmental Regulation
2600 Blair Stone Road
Tallahassee, FL 32399-2400

RE: Request to amend the VOC emission limits in Permit No. AC48-151507

Dear Mr. Fancy:

The above referenced construction permit was issued on December 20, 1988, with an expiration date of December 15, 1990. Pursuant to this construction permit, operating permit number A048-175837 was issued on April 2, 1990. These permits allowed the construction and operation of two paint spray booths at EPCOT Center.

The two booths (WDW 24 and WDW 25) were permitted respectively for, 11.4 tons per year (TPY) and 0.06 TPY of VOC emissions. Both booths are located within the EPCOT Center maintenance building. It has become apparent that, at present production rates, the VOC emissions from booth WDW 25 will exceed the 0.06 TPY limit. Therefore, this request to amend the construction permit limit is being submitted. As you explained during our telephone conversation, the construction permit requires amending before the operating permit emission limits can be amended. In addition, the construction permit amendment will take place in Tallahassee, while the operating permit amendment will take place in the Central District.

The proposed change is to shift 0.4 TPY from WDW 24 to WDW 25. Specific Condition number 7 of AC48-151507 would then read:

The maximum permitted Volatile Organic Compounds (VOC) emission rates are 11.0 tons/year for WDW 24 and 0.46 R E C E I V E D ton/year for WDW 25.

JUN 1 9 1991

Division of Air Resources Management



Mr. Clair Fancy Page 2 June 17, 1991

By allowing this shift of emissions, the total VOC emissions will remain the same while allowing the continued operation of paint spray booth WDW 25.

Should you require any further information, please call me at (407)827-2743.

Sincerely,

Armando Rodriguez

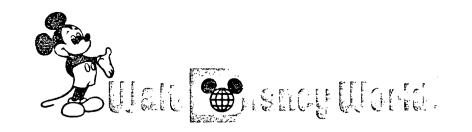
Armando Rodriguez

Manager

Environmental Control

AR/kt

cc: Chuck Collins - D.E.R. Central District



DER
JUL 17 1985
BAOM

July 12, 1985

Mr. Charles M. Collins, Manager
Air Permitting
FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATIONS
St. Johns River District
3319 Maguire Blvd.
Suite 232
Orlando, Florida 32803-3767

Re: AC48-75833, AC48-75834, AC48-75835, AC48-75836, AC48-75837, AC48-75838

Dear Mr. Collins:

This letter is concerning the fulfillment of the specific conditions of the referenced permits.

The specific conditions of these permits require:

- 1. An initial demonstration of no visible emissions;
- 2. documentation of VOC content of all coatings and solvents; and
- quarterly submission of daily records of coating and solvent use.

Visible emissions evaluations of these sources will be performed by Cross/Tessitore and Associates and are scheduled for late July, 1985 and early August, 1985.

Manufacturers response to requests for VOC content information has been slow. Compounds for which information has not been received by August 1, will be sampled and analyzed according to EPA Method 24.

Contid...

Mr. Charles M. Collins, Manager Air Permitting July 12, 1985

Page Two

An extension of the construction permits until September 15 is requested by which time the construction permit conditions will have been fulfilled and certificates of completion at construction will be submitted.

Yours very truly,

EDWARD B. CROWELL

Vice President Facilities Support

EBC:psb

cc: C. H. Fancy

Fred Harden

LAKE BUERT CISTAL FLORIDA

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06/21/85

CHECK NO. 572379

AMOUNT OF CHECK

TALTHE CHM OF ************* DDD DOLLARS AND DO CENTS

5 ******2,000.00

TO THE ORDER OF

FLORIDA DEPT ENVIRONMENTL REGULATION 2600 BLAIR STONE RD TALLAHASSEE FL 32301

WALT DISNEY WORLD CO.

SUMPANK, N.A. DOWNTOWN OFFICE ORLANDO: FLORIDA 32802

Wait Fisney World - LAKE BUENA VISVA, FLOPIC V SC 324 - TELE 3-5 - THE 2020

BEFORE DEPOSIT

3000046492

COMPUTER NO.: 0001695

GROSS

DISCOUNT

. check no. **572379**

REMITTANTS ABSTOR

INVOICE NO.

PURCH. MDSE. ORDER NO.

REMITTANCE ADVICE: PAYING AGENT FOR WALT DISNEY WORLD CO CK F 061885 411693

CK R

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2,000.00

OPERATING PERMIT FOR EPCOT EMERGENCY GENERATOR #1 & #2

TOTAL: 2,000.00

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2,000.00

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

PLICATION FEES AND MISCELLANEOUS REVENUE

Source of Revenue

Application Number AC 48 - 105243

The Orlando Sentinel

Published Daily
Orlando, Orange County, Florida

State of Florida (ss

Before the undersigned authority personally appeared

Nancy A. Puglia _______, who on oath says that she is the Legal Advertising Representative of the Orlando Sentinel, a Daily newspaper published at Orlando, in Orange County, Florida; that the attached copy of advertisement, being aProposed Agency Action _______ in the matter of ________ Permit to Walt Disney World Company, Inc. ________ in the _______ Court, was published in said newspaper in the issues of _______ Nov. 28, 1984

Affiant further says that the said Orlando Sentinel is a newspaper published at Orlando, in said Orange County, Florida, and that the said newspaper has heretofore been continuously published in said Orange County, Florida, each Week Day and has been entered as second-class mail matter at the post office in Orlando, in said Orange County, Florida for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says the first publication or promised any person, firm or corporation any discount, relate, commission or refund for the purpose of securing this advertisement for publication of the said-few refer.

 \square \square \square

Sworn to and subscribed before me this_

28th

__ day

November

_a.d., 19_84

t November "

Notary Public, State of Florida at Large

My Commission Expires July 13, 1985 Bonded by American Fire & Casualty Co.

FORM NO. AD-262

Motary Public

ADVERTISING CHARGE

State of Florida
Department of Environmental
Regulation

Notice of Proposed Agency Action on Permit Applications

\$46.63

The Department of Environmental Regulation gives notice of its intent to issue permits to Walt Disney World Company, Inc. to construct a three paint shop paint booths, two staff shop spray booths, and one water wash plastisol booth with drying oven at the Central Facilities Shop building, Facilities Way, Bay Lake, Orange County, Florida. A determination of best available control technology (BACT) was not required.

Persons 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 conform to the requirements of Chapters 17-103 and 28-5, Florida Administrative Code, and must be filed (received) In the Office of General Counsel of the Department at 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32301, within fourteen (14) days of paublication of this notice. Failure to file a request for hearing within this time period shall constitutes a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

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 preliminary statement. Therefore, persons who may not object to the proposed agency action may wish to intervene in the proceeding. A petition for intervention must be filed pursuant to Model Rule 28-5.207 at least five (5) days before the final hearing and be filed with the hearing officer if one has been assigned at the Division of Administrative Hearings, Department of Administration, 2009, Apalachee Parkway, Tallahassee, Florida 32301. If no hearing officer has been assigned, the petition is to be filed with the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32301, Failure to petition to intervene within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes.

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

at:
Dept. of Environmental Regulation
St. Johns River District
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803
Dept. of Environmental Regulation
Bureau of Air Quality Management
2600 Blair Stone Road

Tallahassee, Florida 32301
Any person may send written comments on the proposed action to Mr.
Bill Thomas at the department's Tallahassee address. All comments mailed within 30 days of the publication of this notice will be considered in the department's final determination.
LS-642(10)
Nov.28,1984

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PS Form 3800, Apr. 1976 RECEIPT FOR CERTIFIED MAIL CONSULT POSTMASTER FOR FEES TOTAL POSTAGE AND FEES * Mr. Edward P.O., STATE AND ZIP CODE NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL (See Reverse) OPTIONAL SERVICES CERTIFIED FEE SPECIAL DELIVERY RESTRICTED DELIVERY 9/26/84 SHOW TO WHOM, DATE.
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STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

September 24, 1984

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. Edward B. Crowell Vice President Facilities Division Walt Disney World Company, Inc. Post Office Box 40 Lake Buena Vista, Florida 32830

Dear Mr. Crowell:

Attached is one copy of the Technical Evaluation and Preliminary Determination, and proposed permits to construct paint spray booths at your existing facility in Bay Lake, Orange County, Florida.

Before final action can be taken on your draft permit, you are required by Florida Administrative Code Rule 17-103.150 to publish the attached Notice of Proposed Agency Action in the legal advertising section of a newspaper of general circulation in Orange County no later than fourteen days after receipt of this letter. The department must be provided with proof of publication within seven days of the date the notice is published. Failure to publish the notice may be grounds for denial of the permit.

Please submit, in writing, any comments which you wish to have considered concerning the department's proposed action to Mr. Bill Thomas of the Bureau of Air Quality Management.

Sincerely,

C. H. Fancy, P.E.

Deputy Chief

Bureau of Air Quality
Management

CHF/pa

Attachments

cc: Ted W. McKim, P.E., Reedy Creek Utilities Co. Inc. Charles Collins, DER St. Johns River District

BEFORE THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of an)	DER	File	No.	AC	48-75833
Application for Permits by:)				AC	48-75834
_)				AC	48-75835
Walt Disney World Company, Inc.)				AC	48-74836
Post Office Box 40)				AC	48-75837
Lake Buena Vista, Florida 32830)				AC	48-75838
)					

INTENT TO ISSUE

The Department of Environmental Regulation hereby gives notice of its Intent to Issue, and proposed order of issuance for, a permit pursuant to Chapter 403, Florida Statutes, 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, Walt Disney World Company, Inc., applied on September 22, 1984, to the Department of Environmental Regulation for a permit to construct three paint shop paint booths, two staff shop spray booths, and one water wash plastisol booth with drying oven at the Central Facilities Shop building, Facilities Way, Bay Lake, Orange 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 applicant was officially notified by the Department that an air construction permit was required for the proposed work.

This intent to issue shall be placed before the Secretary for final action unless an appropriate petition for a hearing pursuant to the provisions of Section 120.57, Florida Statutes, is filed within fourteen (14) days from receipt of this letter or

publication of the public notice (copy attached) required pursuant to Rule 17-103.150, Florida Administrative Code, whichever occurs first. The petition must comply with the requirements of Section 17-103.155 and Rule 28-5.201, Florida Administrative Code (copy attached) and be filed pursuant to Rule 17-103.155(1) in the Office of General Counsel of the Department of Environmental Regulation at 2600 Blair Stone Road, Tallahassee, Florida 32301.

Petitions which are not filed in accordance with the above provisions are subject to dismissal by the Department. In the event a formal hearing is conducted pursuant to Section 120.57(1), all parties shall have opportunity to respond, to present evidence and argument on all issues involved, to conduct cross-examination of witness and submit rebuttal evidence, to submit proposed findings of facts and orders, to file exception to any order or hearing officer's recommended order, and to be represented by counsel. If an informal hearing is requested, the agency, in accordance with its rules of procedure, will provide affected persons or parties or their counsel an opportunity, at a convenient time and place, to present to the agency or hearing officer, written or oral evidence in opposition to the agency's action or refusal to act, or a written statement challenging the grounds upon which the agency has chosen to justify its action or inaction, pursuant to Section 120.57(2), Florida Statutes.

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 proposed agency action. Therefore, persons who may not wish to file a petition, may wish to intervene in the proceeding. A petition for intervention must be filed pursuant to Model Rule 28-5.207 at least five (5) days before the final hearing and be filed with the hearing officer if one has been assigned at the Division of

Administrative Hearings, 2009 Apalachee Parkway, Tallahassee, Florida 32301. If no hearing officer has been assigned, the petition is to be filed with the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahase, Florida 32301. Failure to petition to intervene within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statues.

Executed the $\frac{\partial i}{\partial t}$ day of $\frac{\sum_{i} p^{i}}{\sum_{i} p^{i}}$, 1984, in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

C. H. Fancy, P.E.

Deputy Chief

Bureau of Air Quality

Management

Copies furnished to:

Mr. Edward B. Crowell, Walt Disney World Company, Inc.

Mr. Ted W. McKim, P.E., Reedy Creek Utilities Co., Inc.

Mr. Charles Collins, DER St. Johns River District

State of Florida Department of Environmental Regulation Notice of Proposed Agency Action on Permit Applications

The Department of Environmental Regulation gives notice of its intent to issue permits to Walt Disney World Company, Inc. to construct a three paint shop paint booths, two staff shop spray booths, and one water wash plastisol booth with drying oven at the Central Facilities Shop building, Facilities Way, Bay Lake, Orange County, Florida. A determination of best available control technology (BACT) was not required.

Persons 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 conform to the requirements of Chapters 17-103 and 28-5, Florida Administrative Code, and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32301, within fourteen (14) days of publication of this notice. Failure to file a request for hearing within this time period shall constitutes a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

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 preliminary statement. Therefore, persons who may not object to the proposed agency action may wish to intervene in the proceeding. A petition for intervention must be filed pursuant to Model Rule 28-5.207 at least five (5) days before the final hearing and be filed with the hearing officer if one has been assigned at the Division of Administrative Hearings, Department of Administration, 2009, Apalachee Parkway, Tallahassee, Florida 32301. If no hearing officer has been assigned, the petition is to be filed with the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32301. Failure to petition to intervene within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes.

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:

Dept. of Environmental Regulation St. Johns River District 3319 Maguire Blvd., Suite 232 Orlando, Florida 32803

Dept. of Environmental Regulation Bureau of Air Quality Management 2600 Blair Stone Road Tallahassee, Florida 32301

Any person may send written comments on the proposed action to Mr. Bill Thomas at the department's Tallahassee address. All comments mailed within 30 days of the publication of this notice will be considered in the department's final determination.

RULES OF THE ADMINISTRATIVE COMMISSION MODEL RULES OF PROCEDURE CHAPTER 28-5 DECISIONS DETERMINING SUBSTANTIAL INTERESTS

28-5.15 Requests for Formal and Informal Proceedings

- (1) Requests for proceedings shall be made by petition to the agency involved. Each petition shall be printed typewritten or otherwise duplicated in legible form on white paper of standard legal size. Unless printed, the impression shall be on one side of the paper only and lines shall be double spaced and indented.
- (2) All petitions filed under these rules should contain:
 - (a) The name and address of each agency affected and each agency's file or identification number, if known;
 - (b) The name and address of the petitioner or petitioners;
 - (c) All disputed issues of material fact. If there are none, the petition must so indicate;
 - (d) A concise statement of the ultimate facts alleged, and the rules, regulations and constitutional provisions which entitle the petitioner to relief;
 - (e) A statement summarizing any informal action taken to resolve the issues, and the results of that action;
 - (f) A demand for the relief to which the petitioner deems himself entitled; and
 - (g) Such other information which the petitioner contends is material.

Technical Evaluation and Preliminary Determination

WALT DISNEY WORLD COMPANY, INC.
Orange County
Lake Buena Vista, Florida

NSA Paint Shop Paint Booths 1, 2, 3; NSA Staff Shop Spray Booths 1 and 2; Water Wash Plastisol Booth Number 1

Permit Numbers: AC 48-75833

AC 48-75834 AC 48-75835 AC 48-75836 AC 48-75837 AC 48-75838

Florida Department of Environmental Regulation Bureau of Air Quality Management Central Air Permitting

September 17, 1984

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State of Florida Department of Environmental Regulation Notice of Proposed Agency Action on Permit Applications

The Department of Environmental Regulation gives notice of its intent to issue permits to Walt Disney World Company, Inc. to construct a three paint shop paint booths, two staff shop spray booths, and one water wash plastisol booth with drying oven at the Central Facilities Shop building, Facilities Way, Bay Lake, Orange County, Florida. A determination of best available control technology (BACT) was not required.

Persons 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 conform to the requirements of Chapters 17-103 and 28-5, Florida Administrative Code, and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32301, within fourteen (14) days of publication of this notice. Failure to file a request for hearing within this time period shall constitutes a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

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 preliminary statement. Therefore, persons who may not object to the proposed agency action may wish to intervene in the proceeding. A petition for intervention must be filed pursuant to Model Rule 28-5.207 at least five (5) days before the final hearing and be filed with the hearing officer if one has been assigned at the Division of Administrative Hearings, Department of Administration, 2009, Apalachee Parkway, Tallahassee, Florida 32301. If no hearing officer has been assigned, the petition is to be filed with the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32301. Failure to petition to intervene within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes.

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:

Dept. of Environmental Regulation St. Johns River District 3319 Maguire Blvd., Suite 232 Orlando, Florida 32803

Dept. of Environmental Regulation Bureau of Air Quality Management 2600 Blair Stone Road Tallahassee, Florida 32301

Any person may send written comments on the proposed action to Mr. Bill Thomas at the department's Tallahassee address. All comments mailed within 30 days of the publication of this notice will be considered in the department's final determination.

RULES OF THE ADMINISTRATIVE COMMISSION MODEL RULES OF PROCEDURE CHAPTER 28-5 DECISIONS DETERMINING SUBSTANTIAL INTERESTS

28-5.15 Requests for Formal and Informal Proceedings

- (1) Requests for proceedings shall be made by petition to the agency involved. Each petition shall be printed typewritten or otherwise duplicated in legible form on white paper of standard legal size. Unless printed, the impression shall be on one side of the paper only and lines shall be double spaced and indented.
- (2) All petitions filed under these rules should contain:
 - (a) The name and address of each agency affected and each agency's file or identification number, if known;
 - (b) The name and address of the petitioner or petitioners;
 - (c) All disputed issues of material fact. If there are none, the petition must so indicate;
 - (d) A concise statement of the ultimate facts alleged, and the rules, regulations and constitutional provisions which entitle the petitioner to relief;
 - (e) A statement summarizing any informal action taken to resolve the issues, and the results of that action;
 - (f) A demand for the relief to which the petitioner deems himself entitled; and
 - (g) Such other information which the petitioner contends is material.

I. Project Description

A. Applicant

Walt Disney World Company, Inc. Post Office Box 40 Lake Buena Vista, Florida 32830

B. Project and Location

The applicant proposes to construct three (3) paint shop spray booths, two (2) staff shop spray booths and a water wash plastisol spray booth. These booths will be constructed in the Central Facilities Shop building. The building is located in the applicant's existing facility at Facilities Way, Orange County, Bay Lake, Florida. The Universal Transverse Mercator (UTM) coordinates of the source are zone 17, 443.5 km East and 3144.3 km North.

C. Process and Controls

The proposed spray booths will service Walt Disney World's theme park, hotels, camp grounds and shops.

NSA Paint Shop Paint Booth No. 1 will coat a variety of objects including vehicles, wooden furniture, trash cans, ride components, posts and frames using two part polyurethane, two part acrylic, epoxy primers and other primer coating systems. The booth will be equipped with two Binks model 30-4313 exhaust fans, each rated at 18,029 SCFM at 1/4 inch WC static pressure, and Binks model 29-893 paint arrestor type filters which are 95% efficient for particulate. There is no proposed add on pollution control equipment for volatile organic compounds (VOC) emissions from this booth.

NSA Paint Shop Paint Spray Booth No. 2 and No. 3 will be coating the same variety of objects and will be using the same coatings as the NSA Paint Shop Paint Spray Booth No. 1. Each booth will be equipped with two Binks model 30-4418 exhaust fans, each rated at 48,500 SCFM at 1/4 inch WC static pressure, and Binks model 29-893 paint arrestor type filters which are 95% efficient for particulate. There is no proposed add on control equipment for VOC emissions from either of these booths.

NSA Staff Shop Spray Booth No. 1 will be used for spraying polyester resin systems, lacquer based primers and sealers and polyvinyl alcohol on fiberglass objects and molds. A Binks model PFF type spray booth with model 30-800 exhaust fans rated at 24,800 SCFM will be used. The particulate filters for the booth have an efficiency of 80% for lacquers and 95% for two part high particulate coating systems. There is no proposed add on control equipment for VOC emissions from this booth.

NSA Staff Shop Spray Booth No.2 will be used for spraying fiberglass molds and objects with polyester resin systems, lacquer based primers and polyvinyl alcohol. This built-in spray booth will be equipped with a New York blower model 548-1 rated at 29,000 CFM and particulate filters with an efficiency of 80% when used with lacquers and 95% when used with two part high particulate coating systems. There is no proposed add on control equipment for VOC emissions from this booth.

The Water Wash Plastisol Booth No. 1 will consist of a spray booth and curing oven. The spray booth will be a Binks water wash spray booth equipped with a 16,800 SCFM fan, at 4.2 inches WC static pressure, and a nopump dyna-precipitator water wash filtering system that will be 98% efficient for particulate. The curing oven will be equipped with a 3,000 DSCFM rated fan. The oven is fired by natural gas with an exit stack temperature of 350°F. There is no proposed add on control equipment for VOC emissions from this spray booth or curing oven.

II. Rule Applicability

The proposed project is located in Orange County which is designated as a nonattainment area for the air pollutant ozone, FAC Rule 17-2.410, and as an attainment area for the air pollutant particulate matter, FAC Rule 17-2.420(2).

Prevention of Significant Deterioration, FAC Rule 17-2.500, will not apply to this proposed project because the total allowable emissions increase of particulate matter is 1.20 tons per year. This is below the PSD significant emission rate of 25 tons per year, FAC Rule 17-2.500, Table 500-2.

The project will not be subject to the New Source Review for Nonattainment Areas standards of FAC Rule 17-2.510 for volatile organic compounds because the VOC emissions are below the significant level. Also, there are no applicable RACT emission limiting standards for this application. However, the general pollutant emission limiting standards of FAC Rule 17-2.620 will apply to this project.

III. Summary of Emissions and Air Quality Analysis

A. Emission Limitations

The pollutants emitted from the proposed sources are particulate matter and volatile organic compounds. Particulate matter is generated from overspray of the applied coatings. Volatile organic compounds are released when the solvents in the applied coatings evaporate. These emissions are summarized as follows:

	·	Volatile Organic Compounds (ton/yr)	Particulate Uncontrolled	(ton/yr) Actual
NSA Paint	Shop No. 1	2.82	3.81	0.19
NSA Paint	Shop No. 2	5 .6 5	7.62	0.38
NSA Paint	Shop No. 3	5.65	7.62	0.38
NSA Staff	Shop No. 1	0.08	0.29	0.02
NSA Staff	Shop No. 2	0.63	2.60	0.16 ct
Plastisol	Booth No.1 Total	$\frac{0.53}{15.36}$	3.65 25.59	$\frac{0.08}{1.21}$

B. Air Quality Analysis

Since the increase of emissions is exempted from the requirements of FAC Rule 17-2.500, Prevention of Significant Deterioration, an ambient air quality analysis is not required.

IV. Conclusion

The emission limits that will be imposed have been determined to be in compliance with all applicable requirements of FAC 17-2. The permitted maximum allowable emission limits should not cause any violation of Florida's ambient air quality standards.

The general and specific conditions listed in the proposed construction permits (attached) will assure compliance with all applicable requirements of FAC 17-2.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

PERMITTEE:

Walt Disney World Company, Inc. Date of Issue:

Post Office Box 40

Lake Buena Vista, Florida 32830 County: Orange

Permit Number: AC 48-75833

Expiration Date: April 1, 1985

28° 25' 32"N/ Latitude/Longitude:

81° 34' 36"W

Project: NSA Paint Spray Booth No. 1

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

For the construction of a spray booth which will be used to coat a variety of objects including vehicles, wooden furniture, trash cans, ride components, posts and frames using two part polyurethane, two part acrylic, epoxy primers and other primer coating systems. The booth will be equipped with two Binks model 30-4313 exhaust fans and Binks model 29-893 paint arrestor type filters.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, specific conditions.

Attachments are as follows:

- Applications to construct an Air Pollution Source, DER form 1. 17-1.202(1).
- C. H. Fancy's letter dated October 17, 1983 2.
- 3. Walt Disney World's letter dated December 6, 1983
- 4. C. H. Fancy's letter dated January 3, 1984
- Walt Disney World's letter dated May 1, 1984 5.
- 6. C. H. Fancy's letter dated June 13, 1984
- Walt Disney World's letter dated July 13, 1984 7.

PERMITTEE:

Walt Disney World Company, Inc. Permit Number: AC 48-75833

Date of Issue:

Expiration Date: April 1, 1985

GENERAL CONDITIONS:

- 1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
- 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. Nor 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 does not constitute 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, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, 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:

I. D. Number:

Walt Disney World Company, Inc.Permit Number: AC 48-75833

Date of Issue:

Expiration Date: April 1, 1985

GENERAL CONDITIONS:

- 6. The permittee shall at all times 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, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
 - a. Having access to and copying any records that must be kept under the conditions of the permit;
 - b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. Sampling or monitoring 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 notify and provide the department with the following information:
 - a. a description of and cause of non-compliance; and
 - b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:

Walt Disney World Company, Inc. Permit Number: AC 48-75833

Date of Issue:

Expiration Date: April 1, 1985

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 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 arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.
- 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 17-4.12 and 17-30.30, 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 is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
- 13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 - () Determination of Prevention of Significant Deterioration (PSD)
 - () Compliance with New Source Performance Standards.
- 14. The permittee shall comply with the following monitoring and record keeping requirements:
 - a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:

Walt Disney World Company, Inc.Permit Number: AC 48-75833

Date of Issue:

Expiration Date: April 1, 1985

GENERAL CONDITIONS:

- b. The permittee shall retain 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), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be 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 date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.
- 15. 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 submitted or corrected promptly.

SPECIFIC CONDITIONS:

- The hours of operation shall not exceed 4160 hours per year.
- 2. The allowable particulate emission rate shall not exceed .125 pounds per hour or 0.38 tons per year.

PERMITTEE:

Walt Disney World Company, Inc.Permit Number: AC 48-75833

Date of Issue:

Expiration Date: April 1, 1985

SPECIFIC CONDITIONS:

- 3. There shall be no visible emissions, initially demonstrated in accordance with DER Method 9 (Rule 17-2.700(6)(a)9, FAC).
- 4. Allowable volatile organic compound emissions shall not exceed 1.77 pounds per hour or 5.65 tons per year.
- 5. The volatile organic compound content of all coatings and solvents used in this booth, demonstrated by manufacturer's specification or EPA Method 24, shall be submitted to the St. Johns River District office.
- 6. The use of all coatings and solvents shall be recorded daily and shall be submitted quarterly to the St. Johns River District office.
- 7. Compliance tests, as specified by Specific Conditions 3 and 5 and in accordance with FAC Rule 17-2.700, shall be submitted to DER's St. Johns River District office within 45 days after completion of the tests.
- 8. Fifteen (15) days notification of the compliance tests to DER's St. Johns River District office is required.
- 9. After satisfactory completion of the initial compliance test and prior to ninety (90) days before the expiration of this permit, a complete application for an operating permit shall be submitted to the St. Johns River District office. The permittee may continue to operate in compliance with all terms of this construction permit until its expiration date or the issuance of an operating permit. The department may extend the expiration date of this constructon permit as authorized by Rule 17-2.210(1), FAC.

Issued this	day of, 19
STATE OF FLORI	DA DEPARTMENT OF
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STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

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TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32301-8241

BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

PERMITTEE:

Walt Disney World Company, Inc. Date of Issue:

Post Office Box 40

Lake Buena Vista, Florida 32830 County: Orange

Permit Number: AC 48-75834

Expiration Date: April 1, 1985

28° 25' 32"N/ Latitude/Longitude:

81° 34' 36"W

Project: NSA Paint Spray Booth No. 2

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

For the construction of a spray booth which will be used to coat a variety of objects including vehicles, wooden furniture, trash cans, ride components, posts and frames using two part polyurethane, two part acrylic, epoxy primers and other primer The booth will be equipped with two Binks model coating systems. 30-4418 exhaust fans and Binks model 29-893 paint arrestor type filters.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, specific conditions.

Attachments are as follows:

- 1. Applications to construct an Air Pollution Source, DER form 17-1.202(1).
- 2. C. H. Fancy's letter dated October 17, 1983
- 3. Walt Disney World's letter dated December 6, 1983
- 4. C. H. Fancy's letter dated January 3, 1984
- 5. Walt Disney World's letter dated May 1, 1984
- 6. C. H. Fancy's letter dated June 13, 1984
- 7. Walt Disney World's letter dated July 13, 1984

PERMITTEE:

Walt Disney World Company, Inc. Permit Number: AC 48-75834

Date of Issue:

Expiration Date: April 1, 1985

GENERAL CONDITIONS:

- 1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
- 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. Nor 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 does not constitute 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, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, 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:

I. D. Number:

Walt Disney World Company, Inc.Permit Number: AC 48-75834

Date of Issue:

Expiration Date: April 1, 1985

GENERAL CONDITIONS:

- 6. The permittee shall at all times 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, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
 - a. Having access to and copying any records that must be kept under the conditions of the permit;
 - Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. Sampling or monitoring 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 notify and provide the department with the following information:
 - a. a description of and cause of non-compliance; and
 - b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:

Walt Disney World Company, Inc. Permit Number: AC 48-75834
Date of Issue:
Expiration Date: April 1, 1985

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 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 arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.
- 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 17-4.12 and 17-30.30, 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 is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
- 13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 - () Determination of Prevention of Significant Deterioration (PSD)
 - () Compliance with New Source Performance Standards.
- 14. The permittee shall comply with the following monitoring and record keeping requirements:
 - a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:

I. D. Number:

Walt Disney World Company, Inc.Permit Number: AC 48-75834

Date of Issue:

Expiration Date: April 1, 1985

GENERAL CONDITIONS:

- b. The permittee shall retain 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), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be 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 date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.
- 15. 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 submitted or corrected promptly.

- 1. The hours of operation shall not exceed 4160 hours per year.
- 2. The allowable particulate emission rate shall not exceed 0.250 pounds per hour or 0.38 tons per year.

PERMITTEE:

I. D. Number:

Walt Disney World Company, Inc.Permit Number: AC 48-75834

Date of Issue:

Expiration Date: April 1, 1985

- 3. There shall be no visible emissions, initially demonstrated in accordance with DER Method 9 (Rule 17-2.700(6)(a)9, FAC).
- 4. Allowable volatile organic compound emissions shall not exceed 1.77 pounds per hour or 5.65 tons per year.
- 5. The volatile organic compound content of all coatings and solvents used in this booth, demonstrated by manufacturer's specification or EPA Method 24, shall be submitted to the St. Johns River District office.
- 6. The use of all coatings and solvents shall be recorded daily and shall be submitted quarterly to the St. Johns River District office.
- 7. Compliance tests, as specified by Specific Conditions 3 and 5 and in accordance with FAC Rule 17-2.700, shall be submitted to DER's St. Johns River District office within 45 days after completion of the tests.
- 8. Fifteen (15) days notification of the compliance tests to DER's St. Johns River District office is required.
- 9. After satisfactory completion of the initial compliance test and prior to ninety (90) days before the expiration of this permit, a complete application for an operating permit shall be submitted to the St. Johns River District office. The permittee may continue to operate in compliance with all terms of this construction permit until its expiration date or the issuance of an operating permit. The department may extend the expiration date of this constructon permit as authorized by Rule 17-2.210(1), FAC.

Issued thisday of, 19
STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION
VICTORIA J. TSCHINKEL, Secretary

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

PERMITTEE:

Walt Disney World Company, Inc. Date of Issue: Post Office Box 40

Lake Buena Vista, Florida 32830 County: Orange

Permit Number: AC 48-75835

Expiration Date: April 1, 1985

28° 25' 32"N/ Latitude/Longitude:

81° 34' 36"W

Project: NSA Paint Spray Booth No. 3

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

For the construction of a spray booth which will be used to coat a variety of objects including vehicles, wooden furniture, trash cans, ride components, posts and frames using two part polyurethane, two part acrylic, epoxy primers and other primer coating systems. The booth will be equipped with two Binks model 30-4418 exhaust fans and Binks model 29-893 paint arrestor type filters.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, specific conditions.

Attachments are as follows:

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- Walt Disney World's letter dated December 6, 1983 3.
- C. H. Fancy's letter dated January 3, 1984 4.
- 5. Walt Disney World's letter dated May 1, 1984
- C. H. Fancy's letter dated June 13, 1984 6.
- 7. Walt Disney World's letter dated July 13, 1984

PERMITTEE:
Walt Disney World Company Inc.

I. D. Number:

Walt Disney World Company, Inc. Permit Number: AC 48-75835

Date of Issue:

Expiration Date: April 1, 1985

GENERAL CONDITIONS:

- 1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
- 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. Nor 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 does not constitute 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, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, 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:

I. D. Number:

Walt Disney World Company, Inc.Permit Number: AC 48-75835

Date of Issue:

Expiration Date: April 1, 1985

GENERAL CONDITIONS:

- 6. The permittee shall at all times 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, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
 - a. Having access to and copying any records that must be kept under the conditions of the permit;
 - b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. Sampling or monitoring 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 notify and provide the department with the following information:
 - a. a description of and cause of non-compliance; and
 - b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:

Walt Disney World Company, Inc. Permit Number: AC 48-75835

Date of Issue:

Expiration Date: April 1, 1985

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 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 arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.
- 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 17-4.12 and 17-30.30, 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 is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
- 13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)() Determination of Prevention of Significant Deterioration
 - () Compliance with New Source Performance Standards.
- 14. The permittee shall comply with the following monitoring and record keeping requirements:
 - a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:

I. D. Number:

Walt Disney World Company, Inc.Permit Number: AC 48-75835

Date of Issue:

Expiration Date: April 1, 1985

GENERAL CONDITIONS:

- b. The permittee shall retain 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), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be 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 date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.
- 15. 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 submitted or corrected promptly.

- 1. The hours of operation shall not exceed 4160 hours per year.
- The allowable particulate emission rate shall not exceed
 0.250 pounds per hour or 0.38 tons per year.

PERMITTEE:

I. D. Number:
Walt Disney World Company, Inc.Permit Number: AC 48-75835
Date of Issue:
Expiration Date: April 1, 1985

- 3. There shall be no visible emissions, initially demonstrated in accordance with DER Method 9 (Rule 17-2.700(6)(a)9, FAC).
- 4. Allowable volatile organic compound emissions shall not exceed 1.77 pounds per hour or 5.65 tons per year.
- 5. The volatile organic compound content of all coatings and solvents used in this booth, demonstrated by manufacturer's specification or EPA Method 24, shall be submitted to the St. Johns River District office.
- 6. The use of all coatings and solvents shall be recorded daily and shall be submitted quarterly to the St. Johns River District office.
- 7. Compliance tests, as specified by Specific Conditions 3 and 5 and in accordance with FAC Rule 17-2.700, shall be submitted to DER's St. Johns River District office within 45 days after completion of the tests.
- 8. Fifteen (15) days notification of the compliance tests to DER's St. Johns River District office is required.
- 9. After satisfactory completion of the initial compliance test and prior to ninety (90) days before the expiration of this permit, a complete application for an operating permit shall be submitted to the St. Johns River District office. The permittee may continue to operate in compliance with all terms of this construction permit until its expiration date or the issuance of an operating permit. The department may extend the expiration date of this constructon permit as authorized by Rule 17-2.210(1), FAC.

Issued this	_day of, 19
STATE OF FLORIDA ENVIRONMENTAL REC	- -
VICTORIA J TSCH	INKEL Secretary

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

PERMITTEE:

Walt Disney World Company, Inc. Date of Issue: Post Office Box 40

Lake Buena Vista, Florida 32830 County: Orange

Permit Number: AC 48-75836

Expiration Date: April 1, 1985

28° 25' 32"N/ Latitude/Longitude: 81° 34' 36"W

Project: NSA Staff Shop Booth No. 1

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

For the construction of a spray booth which will be used to spray polyester resin, lacquer based coatings and polyvinyl alcohol on fiberglass objects and molds. The booth will be a Binks model PPF with model 30-800 fans. The particulate filters will have an efficiency of 80% for lacquers and 95% for two part high particulate coating systems.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, specific conditions.

Attachments are as follows:

- Applications to construct an Air Pollution Source, DER form 1. 17-1.202(1).
- 2. C. H. Fancy's letter dated October 17, 1983
- 3. Walt Disney World's letter dated December 6, 1983
- 4. C. H. Fancy's letter dated January 3, 1984
- 5. Walt Disney World's letter dated May 1, 1984
- 6. C. H. Fancy's letter dated June 13, 1984
- 7. Walt Disney World's letter dated July 13, 1984

PERMITTEE:

Walt Disney World Company, Inc. Permit Number: AC 48-75836

Date of Issue:

Expiration Date: April 1, 1985

GENERAL CONDITIONS:

- 1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
- 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. Nor 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 does not constitute 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, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, 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:

I. D. Number:

Walt Disney World Company, Inc.Permit Number: AC 48-75836

Date of Issue:

Expiration Date: April 1, 1985

GENERAL CONDITIONS:

- 6. The permittee shall at all times 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, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
 - a. Having access to and copying any records that must be kept under the conditions of the permit;
 - Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. Sampling or monitoring 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 notify and provide the department with the following information:
 - a. a description of and cause of non-compliance; and
 - b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:

Walt Disney World Company, Inc. Permit Number: AC 48-75836

Date of Issue:

Expiration Date: April 1, 1985

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 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 arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.
- 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 17-4.12 and 17-30.30, 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 is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
- 13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 - () Determination of Prevention of Significant Deterioration (PSD)
 - () Compliance with New Source Performance Standards.
- 14. The permittee shall comply with the following monitoring and record keeping requirements:
 - a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:

I. D. Number:

Walt Disney World Company, Inc.Permit Number: AC 48-75836

Date of Issue:

Expiration Date: April 1, 1985

GENERAL CONDITIONS:

- b. The permittee shall retain 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), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be 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 date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.
- 15. 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 submitted or corrected promptly.

- The hours of operation shall not exceed 2080 hours per year.
- 2. The allowable particulate emission rate shall not exceed 0.02 pounds per hour or 0.02 tons per year.

PERMITTEE:

Walt Disney World Company, Inc.Permit Number: AC 48-75836

Date of Issue:

Expiration Date: April 1, 1985

- 3. There shall be no visible emissions, initially demonstrated in accordance with DER Method 9 (Rule 17-2.700(6)(a)9, FAC).
- 4. Allowable volatile organic compound emissions shall not exceed 1.77 pounds per hour or 5.65 tons per year.
- 5. The volatile organic compound content of all coatings and solvents used in this booth, demonstrated by manufacturer's specification or EPA Method 24, shall be submitted to the St. Johns River District office.
- 6. The use of all coatings and solvents shall be recorded daily and shall be submitted quarterly to the St. Johns River District office.
- 7. Compliance tests, as specified by Specific Conditions 3 and 5 and in accordance with FAC Rule 17-2.700, shall be submitted to DER's St. Johns River District office within 45 days after completion of the tests.
- 8. Fifteen (15) days notification of the compliance tests to DER's St. Johns River District office is required.
- 9. After satisfactory completion of the initial compliance test and prior to ninety (90) days before the expiration of this permit, a complete application for an operating permit shall be submitted to the St. Johns River District office. The permittee may continue to operate in compliance with all terms of this construction permit until its expiration date or the issuance of an operating permit. The department may extend the expiration date of this constructon permit as authorized by Rule 17-2.210(1), FAC.

	Issued thisday of, 19_	
(8)	STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION	
	VICTORIA I TSCHINKEL Secretary	7

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

PERMITTEE:

Walt Disney World Company, Inc. Date of Issue:

Post Office Box 40

Lake Buena Vista, Florida 32830 County: Orange

Permit Number: AC 48-75837

Expiration Date: April 1, 1985

28° 25' 32"N/ Latitude/Longitude:

81° 34' 36"W

Project: NSA Staff Shop Spray

Booth No. 2

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

For the construction of a spray booth which will be used to spray lacquer based coatings and polyvinyl alcohol on fiberglass objects and molds. This built in spray booth will be equipped with a New York model 548-1 blower and particulate filters with an efficiency of 80% for lacquers and 95% for two part high particulate coating systems.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, specific conditions.

Attachments are as follows:

- Applications to construct an Air Pollution Source, DER form 1. 17-1.202(1).
- 2. C. H. Fancy's letter dated October 17, 1983
- 3. Walt Disney World's letter dated December 6, 1983
- C. H. Fancy's letter dated January 3, 1984 4.
- Walt Disney World's letter dated May 1, 1984 5.
- 6. C. H. Fancy's letter dated June 13, 1984
- Walt Disney World's letter dated July 13, 1984 7.

PERMITTEE:

Walt Disney World Company, Inc. Permit Number: AC 48-75837
Date of Issue:
Expiration Date: April 1, 1985

GENERAL CONDITIONS:

- 1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
- 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. Nor 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 does not constitute 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, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, 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:

I. D. Number:

Walt Disney World Company, Inc.Permit Number: AC 48-75837

Date of Issue:

Expiration Date: April 1, 1985

GENERAL CONDITIONS:

- 6. The permittee shall at all times 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, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
 - a. Having access to and copying any records that must be kept under the conditions of the permit;
 - Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. Sampling or monitoring 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 notify and provide the department with the following information:
 - a. a description of and cause of non-compliance; and
 - b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:

I. D. Number: Walt Disney World Company, Inc. Permit Number: AC 48-75837

Date of Issue:

Expiration Date: April 1, 1985

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 revocation of this permit.

- 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 arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.
- 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 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.
- This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
- 13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 - () Determination of Prevention of Significant Deterioration
 - () Compliance with New Source Performance Standards.
- The permittee shall comply with the following monitoring and record keeping requirements:
 - Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:

I. D. Number:

Walt Disney World Company, Inc.Permit Number: AC 48-75837

Date of Issue:

Expiration Date: April 1, 1985

GENERAL CONDITIONS:

- b. The permittee shall retain 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), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be 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 date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.
- 15. 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 submitted or corrected promptly.

- 1. The hours of operation shall not exceed 2080 hours per year.
- 2. The allowable particulate emission rate shall not exceed 0.40 pounds per hour or 0.16 tons per year.

PERMITTEE: I. D. Number:

Walt Disney World Company, Inc. Permit Number: AC 48-75837

Date of Issue:

Expiration Date: April 1, 1985

SPECIFIC CONDITIONS:

3. There shall be no visible emissions, initially demonstrated in accordance with DER Method 9 (Rule 17-2.700(6)(a)9, FAC).

- 4. Allowable volatile organic compound emissions shall not exceed 1.77 pounds per hour or 5.65 tons per year.
- 5. The volatile organic compound content of all coatings and solvents used in this booth, demonstrated by manufacturer's specification or EPA Method 24, shall be submitted to the St. Johns River District office.
- 6. The use of all coatings and solvents shall be recorded daily and shall be submitted quarterly to the St. Johns River District office.
- 7. Compliance tests, as specified by Specific Conditions 3 and 5 and in accordance with FAC Rule 17-2.700, shall be submitted to DER's St. Johns River District office within 45 days after completion of the tests.
- 8. Fifteen (15) days notification of the compliance tests to DER's St. Johns River District office is required.
- 9. After satisfactory completion of the initial compliance test and prior to ninety (90) days before the expiration of this permit, a complete application for an operating permit shall be submitted to the St. Johns River District office. The permittee may continue to operate in compliance with all terms of this construction permit until its expiration date or the issuance of an operating permit. The department may extend the expiration date of this construction permit as authorized by Rule 17-2.210(1), FAC.

Issued this _____day of ____, 19___

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

VICTORIA J. TSCHINKEL, Secretary

(K)

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32301-8241 OF ENVIRONMENTAL

BOB GRAHAM GOVERNOR

VICTORIA J. TSCHINKEL SECRETARY

PERMITTEE:

Permit Number: AC 48-75838

Walt Disney World Company, Inc. Date of Issue: Post Office Box 40

Expiration Date: April 1, 1985

Lake Buena Vista, Florida 32830 County: Orange

28° 25' 32"N/ Latitude/Longitude: 81° 34' 36"W

Project: Water Wash Plastisol Booth

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

For the construction of a Plastisol booth which will consist of a spray booth and curing oven. The spray booth will be a Binks water wash type equipped with a fan and a no pump dyna-precipitator water wash filtering system. The curing oven will be equipped with a fan and be fired by natural gas with an exit stack temperature of 350°F. The booth will be used to spray solvated vinyl plastisol on fiberglass objects and molds.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, specific conditions.

Attachments are as follows:

- Applications to construct an Air Pollution Source, DER form 1. 17-1.202(1).
- 2. C. H. Fancy's letter dated October 17, 1983
- 3. Walt Disney World's letter dated December 6, 1983
- C. H. Fancy's letter dated January 3, 1984 4.
- 5. Walt Disney World's letter dated May 1, 1984
- C. H. Fancy's letter dated June 13, 1984 6.
- 7. Walt Disney World's letter dated July 13, 1984

PERMITTEE:

I. D. Number:

Walt Disney World Company, Inc. Permit Number: AC 48-75838

Date of Issue:

Expiration Date: April 1, 1985

GENERAL CONDITIONS:

- 1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
- 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. Nor 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 does not constitute 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, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, 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:

I. D. Number:
Walt Disney World Company, Inc.Permit Number: AC 48-75838

Date of Issue:
Expiration Date: April 1, 1985

GENERAL CONDITIONS:

- 6. The permittee shall at all times 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, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
 - a. Having access to and copying any records that must be kept under the conditions of the permit;
 - b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. Sampling or monitoring 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 notify and provide the department with the following information:
 - a. a description of and cause of non-compliance; and
 - b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:

Walt Disney World Company, Inc. Permit Number: AC 48-75838

Date of Issue:

I. D. Number:

Expiration Date: April 1, 1985

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 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 arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.
- 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 17-4.12 and 17-30.30, 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 is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
- 13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 - () Determination of Prevention of Significant Deterioration (PSD)
 - () Compliance with New Source Performance Standards.
- 14. The permittee shall comply with the following monitoring and record keeping requirements:
 - a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:

I. D. Number:

Walt Disney World Company, Inc.Permit Number: AC 48-75838

Date of Issue:

Expiration Date: April 1, 1985

GENERAL CONDITIONS:

- b. The permittee shall retain 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), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be 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 date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.
- 15. 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 submitted or corrected promptly.

- 1. The hours of operation shall not exceed 2080 hours per year.
- 2. The allowable particulate emission rate shall not exceed 0.07 pounds per hour or 0.08 tons per year.

PERMITTEE:

I. D. Number:
Walt Disney World Company, Inc.Permit Number: AC 48-75838

Date of Issue:
Expiration Date: April 1, 1985

- 3. There shall be no visible emissions, initially demonstrated in accordance with DER Method 9 (Rule 17-2.700(6)(a)9, FAC).
- 4. Allowable volatile organic compound emissions shall not exceed 0.49 pounds per hour or 0.53 tons per year.
- 5. The volatile organic compound content of all coatings and solvents used in this booth, demonstrated by manufacturer's specification or EPA Method 24, shall be submitted to the St. Johns River District office.
- 6. The use of all coatings and solvents shall be recorded daily and shall be submitted quarterly to the St. Johns River District office.
- 7. Stack temperature shall not exceed 350°F.
- 8. Compliance tests, as specified by Specific Conditions 3 and 5 and in accordance with FAC Rule 17-2.700, shall be submitted to DER's St. Johns River District office within 45 days after completion of the tests.
- 9. Fifteen (15) days notification of the compliance tests to DER's St. Johns River District office is required.
- 10. After satisfactory completion of the initial compliance test and prior to ninety (90) days before the expiration of this permit, a complete application for an operating permit shall be submitted to the St. Johns River District office. The permittee may continue to operate in compliance with all terms of this construction permit until its expiration date or the issuance of an operating permit. The department may extend the expiration date of this constructon permit as authorized by Rule 17-2.210(1), FAC.

	Issued thisday of, 19
	STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION
	VICTORIA J. TSCHINKEL, Secretary
pages attached.	vicioniii o. Ibonimali, beeletar,





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1/23/84

0.971 8.10

July 13, 1984

Mr. C. H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality Management
FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301-8241

Re: Construction Applications: AC 48-75833, AC 48-75834, AC 48-75845, AC 48-75836, AC 48-75837 and AC 48-75838

Dear Mr. Fancy:

The following is in response to the questions put forth in your letter of June 13, 1984 concerning our construction permit applications:

QUESTION 1 -	Solvent	Density	× 8.3 Pgel HP
	Acrythane Brush Reducer	0.971	8.10
	Z-Spar T-8	0.845	7.05
	Rustoleum T-66 Reducer (Xylene)	0.861	
	Amerthane ST-535	0,862	7.19
	Methyl Ethyl Ketone (MEK)	0.807	6,73
	Methyl Heptal Ketone (MHK)	0.827	6.90
	Mineral Spirits	0.890	7.43

QUESTION 2 - No Data Available

QUESTION 3 - There is no anticipated use of Trichloroethylene at any booth or open air spraying.

Butyl Cellosolve Acetate

QUESTION 4 - Units should read, "Tons per Year", not "Pounds per Year".

QUESTION 5 - No solvents are reclaimed from the spray operation phase; however, leftover material which is reduced is disposed of through the Hazardous Waste Program operated by Reedy Creek Utilities Co. Cleaning

Mr. C. H. Fancy Page Two July 13, 1984

solvents are also disposed of in the same manner.

QUESTION 6 - There are four (4) dry cleaning units at the Walt Disney World Co. Laundry (see permit no. A0-48-74144). In rechecking with Walt Disney World Co. Laundry and the RCUC Hazardous Waste personnel, the following are the most accurate figures available for fiscal year 1983. Emission calculation is based on the following calculations:

A total of 13,731 gallons of perchloroethylene were purchased in fiscal year 1983; there are approximately 2,000 gallons within the system at any given time. In addition, approximately 6,052 gallons were disposed of through the Hazardous Waste Program leaving a balance of 5,679 gallons actually used which based on a 13.5 pounds per gallon resulted in approximately 38.3 tons per year VOC emission for 1983 from the Laundry Operations personnel.

QUESTION 7 - There are eight (8) service stations within the Walt Disney World Co. Project, seven (7) of which are private, i.e.:

Dry Dock
Grand Prix
WDW Golf Course, LBV
Golf Course and LBV Marina
Reedy Creek Improvement District
Gas Station, North Service Area
Gas Station, Lake Buena Vista

The public station is located at the EXXON Car Care Center.

Output for these stations is as follows:

GAS SERVICE LOCATION	FY 1983	EMISSIONS HYDROCARBONS
(Private)		
Dry Dock	277,465 gal	2.50 T/yr
Grand Prix	93,537 gal	0.84 T/yr
WDW Golf Course, LBV		
Golf Course & LBV Marina	78,321 gal	0.70 T/yr
Reedy Creek Improvement District	7,110 gal	0.06 T/yr

Mr. C. H. Fancy Page Three July 13, 1984

GAS SERVICE LOCATION	<u>FY 1983</u>	EMISSIONS HYDROCARBONS				
(Private)						
Gas Station, North Service Ar	ea 1,398,826 gal	7.69 T/yr				
Gas Station, Lake Buena Vista	<u>1,098,695</u> gal	<u>6.04</u> T/yr				
SUBTOTAL	2,953,954 gal	17.83 T/yr				
(Public)						
EXXON Car Care Center	<u>1,187,792</u> gal	<u>6.53</u> T/yr				
SUBTOTAL	1,187,792 gal	6.53 T/yr				
DIESEL						
WDW Golf Course	<u>15,850</u> gal	<u>0.14</u> T/yr				
SUBTOTAL	15,850 gal	0.14 T/yr				
LP GAS						
Service Station	153,740 gal	,				
Furnishings	2,787 gal					
SUBTOTAL	<u>156,527</u> gal					
TOTAL	4,157,596 gal	24.50 T/yr				

We hope this additional information will make our application complete. Thank you for your cooperation in processing our applications.

Very truly yours,

EDWARD B. CROWELL, Vice President

Facilities Division

EBC:psb

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

For And/Or	Routing To District Offices To Other Than The Addres	ssee
To:	Loctn.:	
To:	Loctn.:	
	Loctn.:	
	Date:	
Reply Optional []	Reply Required []	Info. Only []
Date Due:	Date Due:	

TO:

Alex Alexander, District Manager

St. Johns River District

FROM:

Clair Fancy

DATE:

June 18, 198

SUBJECT: Y

Walt Disney World

In our review of the Disney spray booth applications, we have uncovered some information that I would like to share with you:

Staff Shop Booth #1 started operation sometime in 1970 Staff Shop Booth #2 started operation in January 1975 Paint Shop Booths #1, 2, 3 started operation in December 1981

Plastisol Booth started operation in February 1983

When we originally received the construction applications for these sources, Disney indicated that all their paints and solvents used for the year went into these booths. They have since revised their applications to show an open air spraying operation which emits approximately 35 tons per year of VOC. In a response to this information, we have requested that they submit construction permit application for their open air spraying.

In addition to these applications, we also received applications to construct two generators for EPCOT Center from Reedy Creek Utilities. With the application they submitted installation check lists showing the installation was completed June 15, 1984.

I understand that you have held a meeting with Walt Disney World and discussed consent orders and fines for their spray booths. We totally support this action and will supply you with any information we have to aid you in this matter. Hopefully, companies will eventually get construction permits from the department before they start building.

ES/agh

cc: Dan Thompson, OGC

PS Ferm	SENDER: Complete items 1, 2, and 3. Add your address in the "RETURN TO" space on reverse.					
Ferm 3811, Jan. 1979	1. The following service is requested (check one.) Show to whom and date delivered					
	(CONSULT POSTMASTER FOR FEES)					
RETU	ARTICLE ADDRESSED TO: Mr. Edward B. Crowell P. O. Box 40					
RN A	Lake Buena Vista, FL 32830					
ECEIPT,	3. ARTICLE DESCRIPTION: REGISTERED NO. CERTIFIED NO. INSURED NO. 0156515					
922	(Always obtain signature of addressee or agent)					
ISTERED, INSURED AND CERTIF	Thave received the article described above. SIGNATURE DAddressee DAuthorized agent DATE OF DELIVERY S. ADDRESS (Complete only if requestati) 15					
TIEM CH	6. UNABLE TO DELIVER BECAUSE:					

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RECEIPT FOR CERTIFIED MAIL

MO INSURANCE COVERAGE PROVIDED—

MOT FOR INTERNATIONAL MAIL

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STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

June 13, 1984

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Edward B. Crowell, Vice President Facilities Division
Walt Disney World Company, Inc.
P. O. Box 40
Lake Buena Vista, Florida 32830

Re: Construction Applications: AC 48-75833, AC 48-75834, AC 48-75835, AC 48-75836, AC 48-75837 and AC 48-75838

Dear Mr. Crowell:

The Bureau of Air Quality Management has received your response to our letter of January 3, 1984. After reviewing the information submitted, the following questions must be answered before the construction permit applications can be processed. At the present time, the applications are incomplete.

Provide the density for the following solvents:

Acrythane Brush
Z. SPAR #8
Rustoleum Reducer
Amerthane ST-535
Methylethyl Ketone
MHK
Mineral Spirits
Butyl/Cele/Ace

- 2. Provide the total yearly withdrawl of Hexa-Methylene.
- 3. Is there any anticipated usage of Trichloroethylene? If so, provide the density and break down of the gallons used at each booth and open air spraying.
- 4. Explain the units used in Table 7.
- 5. Are any solvents recovered from any of the booths?

Mr. Edward B. Crowell Page Two June 13, 1984

- 6. From the information provided by Mr. Kohl in a letter dated May 14, 1984, provide the number and capacity of the drycleaning washers and dryers and show the calculations that gave the 61.6 tons per year VOC figure.
- 7. For the gasoline stations mentioned in the same letter, provide the number of gasoline stations, if they are private or public and the throughput of each.

When all of this information is received, we can continue to process your applications.

In addition, from the information provided by your staff, you must submit an application to construct an air pollution source for the open air spray painting conducted on the facility.

If you have any questions or we can be of assistance to you, please call Edward Svec, Review Engineer, at (904)488-1344 or write to me at the above address.

Sincerely,

C. H. Fancy, P.E.

Deputy Chief

Bureau of Air Quality

Management

CHF/ES/s

cc: C. Collins, St. Johns River District

F. Harden, RDIC





May 01, 1984

Mr. E.H. Fancy, P.E.
Department Chief
BUREAU OF AIR QUALITY MANAGEMENT
STATE OF FLORIDA
Twin Tower Boulevard
2600 Blair Stone Road
Tallahassee, Fl 32301-8241

DER MAY 14 1984 BAOM

RE: Construction Applications AC487T833, AC48-75834, AC48-75835, AC48-75836 AC48-75837 & AC48-75838

Dear Mr. Fancy:

In response to your letter of 1/3/84, in reference to construction applications AC48-75833, 75834, 75835, 75836, 75837, and 75838, we have prepared the following points of additional information and modifications to be included in the permit applications.

INFORMATION REQUIRED FOR COMPLETION OF PERMIT APPLICATIONS:

- I. The Staff Shop Spray Booth #2 was originally constructed in December 1974 and initially used in January 1975.
 - Staff Shop Spray Booth #I was initially used sometime in the middle part of CY 1970, no precise records exist to fix the date precisely.
- 2. ATTACHMENT #I to this letter contains revised emission estimates for the three Paint Shop Spray Booths. Originally submitted paint and solvent usage figures were grossly over estimated and revised figures are based on actual stock withdrawals over a I2 month period from November 1982 to November 1983. This attachment also contains an estimate of VOC emissions resulting from non-booth related painting activities. Procedures implemented to reduce non-spray booth VOC emissions are as follows:
 - I. Paint upper stories of buildings with water base latex paints where practical.
 - 2. Disciplinary actions to encourage recovery of all solvents and unused paints for disposal through the hazardous waste program.
 - 3. Institute record keeping system to keep track of coatings and solvents used in each booth to verify utilization rates and emission estimates.
 - 4. Limiting evaporation losses of cleaning solvents and wastes by requiring that waste drums be tightly sealed when not in use and that spent cleaning

WALT DISNEY WORLD CO.
P.O. BOX 40 · LAKE BUENA VISTA, FLORIDA 32830
COPYRIGHT WALT DISNEY PRODUCTIONS

solvents be transferred to waste drums as soon as possible.

- 5. Audit the integrity of underground storage tanks to rule out solvent loss through leakage into groundwater.
- 6. Specify low solvent or waterborne coatings for jobs where applicable.
- (2. cont.) With these procedure modifications we submit that emission rates tabulated in attachment #1 represent lowest achievable emission rate for the pollutants indicated.
 - 3. ATTACHMENT #2 contains three signed and sealed pages 2 of 12 for permit application AC48-75837, NSA Staff Shop booth 32.
 - 4. Calculation of emissions resultant from the natural gas combustion in the drying oven associated with water wash plastisol booth #1 appears below:

Despatch oven company model PS-4-20 oven rated at 1.5 Mbtu/hr heat input.

Since natural gas contains approximately 1025 btu/SCF, at maximum heat input the oven will burn 1463 SCF nat gas/hr

Using 16 hrs/day, 5 days/wk, 52 wks/yr operating schedule = 4160 hrs/yr

6.09 x 10⁶ SCF nat gas/yr at maximum conditions

Using AP-42 emission factors for natural gas combustion for domestic and commercial boilers (IOMbtu/hr heat input) yields the following emission rates:

POLLUTANT	ED-42 EMISSION FACTOR(lbs/10 ft)	EMISSION ESTIMATE . (Ibs/yr)	(T/y [,] r)
Particulate	. 3	18.27	0.09
Sulfur Dioxide	0.6	3.7	0.02
Nitrogen Oxides	100	609	0.30
Carbon Monoxide	20	122	0.06
Non-Methane VOC	5.3	32.2	0.02
Methane VOC	2.7	16.4	0.008

The following information and documentation was omitted from our letter of Dec. 6, 1983 due to an error on our part:

- A. Six copies of the letter of authorization are included as Attachment #2.
- B. A sketch of the facility layout showing the location of NSA Paint Shop booth #3 and the other booths at the Central Shops facility is included as ATTACHMENT #4.
- C, D, & E. Sketches of facility layout and emission outlets as well as location of other sources on property are included at ATTACHMENT #5 for Staff Shop booth #1, Staff Shop booth #2 and Waterwash Plastisol booth #1.

If you need any additional information please contact Fred Harden @ (305) 828-1883.

Sincerely,

Edward B. Crowell Vice-President Facilities Division

EBC:dlh

cc: Chuck Collins FDER Fred Harden, RCID Bill Mack, WDW Tom Moses, RCID

ATTACHMENT 1

Revisions to Paint Shop Spray Booth Emission Estimates

Paint Shop Spray Booth #1, AC48 - 75833

Paint Shop Spray Booth #2, AC48 - 75834

Paint Shop Spray Booth #3, AC48 - 75835

The values for estimated emissions for the three spray booths at the Paint Shop were derived using the following assumptions and calculations:

Total yearly operating hours at 4160 hrs based on 16 hrs/day, 5 days/wk, 52 wks/yr.

Total paint and solvent usage derived from stock withdrawal records.

Total paint and solvent usage in spray booth activities at the paint shop calculated using approximate percentage of total figures used in booths, as provided by Paint Shop personnel.

Total usage in each particular booth was derived from composite figures, for total booth usage by assigning individual usage proportionally to available floor space.

Paint Shop Booth #1 320 sq. ft., 1/5 of total floorspace

Paint Shop Booth #2 640 sq. ft., 2/5 of total

floorspace

Paint Shop Booth #3 640 sq. ft., 2/5 of total

floorspace

Solvent densities and paint densities were derived from manufacturer's data, standard physical tables, and in cases where specific data was unavailable, estimates were used.

Utilization rates were calculated using usages in individual booths and dividing by 4160 hrs/yr (see above).

Potential emissions were calculated without consideration of any emission controls present. For VOC, actual and potential emissions are the same since no VOC controls are in use on these spray booths.

Actual emissions for particulates were calculated as shown in ATTACHMENT I-F of the original permit submittals using composite overspray rates and an efficiency of 95% for the Binks Paint Arrestor type exhaust filters as quoted by the manufacturer.

Table 1	Usage Rates for Solvents
Table 2	Usage Rates and VOC Components for Coating Systems
Table 3	Potential Particulate Emissions and Utilization Rates
	for Coating Systems
Table 4	Actual Particulate Emissions and VOC Components for
	Coating
Table 5	Utilization Rates for Solvents
Table 6	Total Potential and Actual Emissions for VOC and
	Particulate
Table 7	Maximum Emissions for VOC and Particulate
Table 8	Contaminants Types and Weight Percents
Table 9.	Estimate of VOC Emissions from Non-Spray Booth
	Activities

TABLE 1 SOLVENT USAGE

Solvent Name or Destination	Approximate Density (lbs/gal)	Total Yearly Withdrawals	Approximate Usage In Paint Shop Booths	Approximate Usage In Booth #1	Approximate Usage In Booth #2	Approximate Usage In Booth #3
PNT - 88	7.3	243 gal	243 ~gal	48.6 gal 354.8 lbs	97.2 gal 709.6 lbs	97.2 gal 709.6 lbs
Acrythane Spray	7.33	914 gal	549 gal	109.8 gal 804.8 lbs		219.6 gal 1609.6 lbs
Acrythane Brush		360 gal	0			
Acrylic Enamel #601	7.3	618 gal	495 gal	99 gal 727.7 lbs	198 gal 1455.4 lbs	198 gal 1455.4 lbs
Acrylic Enamel #602	6.94	940 gal	752 gal	150.4 gal 1043.8 lbs	300.8 gal 2087.6 lbs	300.8 gal 2087.6 lbs
Acrylic Enamel #607	7.3	22 gal	22 gal	4.4 gal 32.1 lbs	8.8 gal 64.2 lbs	8.8 gal 64.2 lbs
Methanol	6.6	694 gal	243 gal	48.6 gal 320.8 lbs	97.2 gal 641.6 lbs	97.2 gal 641.6 lbs
Z - SPAR: #8		4 gal	0			~
Z - SPAR #T - 283	6.98	193 gal	97 gal	19.4 gal 135.4 lbs	38.8 gal 270.8 lbs.	38.8 gal 270.8 lbs
Lacquer #105	7.2	1,468 gal	441 gal	88.2 gal 635 lbs	176.4 gal 1270 lbs	176.4 gal 1270 lbs
Rustoleum Reducer		31 gal	0			
Amerflint Reducer	7.3	374 gal	187 gal	37.4 gal 273 lbs	74.8 gal 546 1bs	74.8 gal 546 lbs

TABLE 1 SOLVENT USAGE

SOLVENT USAGE							
Solvent Name or Destination	Approximate Density (lbs/gal)	Total Yearly Withdrawals	Approximate Usage In Paint Shop Booths	Approximate Usage In Booth #1	Approximate Usage In Booth #2	Approximate Usage In Booth #3	
Amerthane ST - 535		16 gal					
Lacquer Thinner	6.0	15,200 gal	152 gal	30.4 gal 182.4 lbs	60.8 gal 364.8 lbs	60.8 gal 364.8 lbs	
Acetone	6.59	6,000 gal	50 gal	10 gal 65.9 lbs	20 gal 131.8 lbs	20 gal 131.8 lbs	
Methylethyl Ketone		36 gal	0				
MHK		35 gal	0	 _			
Mineral Spirits		1,250 gal	0				
Butyl/Cele/Ace		10 gal	0				
Precleano	7.3	1,100 gal	50 gal	10 gal 73 lbs	20 gal 146 lbs	20 gal 146 lbs	
Trichloroethyler	ne						
Methylene- Chloride	11.0	715 gal	. 30 gal	6 gal 66 lbs	12 gal 132 lbs	12 gal 132 lbs	
Lacquer Reducer	6.0	5 gal	**	1 gal 6 lbs	2 gal 12 lbs	1 gal 12 lbs	
Hexa- Methylene	7.3		5 gal	l gal 7.3 lbs	2 gal 14.6 lbs	2 gal 14.6 lbs	
Gil. Ure/Lac	7.3	144 gal	40 gal	8 gal 58.4 lbs	16 gal 116.8 lbs	16 gal 116.8 lbs	
TOTALS		30,372 gal	3361 gal	672.2 gal 4786.4 lbs	1344.4 gal 9572.8 lbs	1344.4 gal 9572.8 lbs	

23,932 lbs/yr 11.97 tons/yr

TABLE 2

PAINT	IICACE
LWTNT	ODAGL

Type of Coating System	Approximate Coating Density (lbs/gal)	Approximate Total Usage In Paint Shop Booths	Approximate WT % VOC In Coating	Total Particulate Loads For Booths	Potential VOC Emissions For Booths	Approximate Usage In Non-Booth Painting
2-Part Acrylic Polyurethane	9.2	6,410 gal/ýŕ	. 0	58,972 lbs/yr	0	15,292 gal/yr
2-Part Epoxy Primer	10.5	218 gal/yr	0	2,289 lbs/yr	0	810 gal/yr
Conventional Primers	9.4	56l gal/yr	44`%	2,953 lbs/yr	2,320 lbs/yr	661 gal/yr
Lacquers	7.9	232 gal/yr	69 %	568 lbs/yr	1,265 lbs/yr	622 gal/yr
Latex	8.0	50 gal/yr	0	280 lbs/yr*	0 Waterbase	575 gal/yr
Low Solvent Shellac	app. 7.5	200 gal/yr	20.5%	1,192.5	307.5 lbs/yr	1,164 gal/yr
Alkyd oil base	8.0	50 gal/yr	49 %	204 lbs/yr	196 · lbs/yr	1,443 gal/yr
Miscellaneous Other Coatings	9.0	60 gal/yr	40 %**	324 lbs/yr	216 lbs/yr	410 gal/yr

TOTALS	65,590	4,304.5 IDS/yr	21,614 gal/yr
	lbs/yr	2.15	
		tons/yr	
		VOC FROM	
		·	

COATING SYSTEMS ALONE

^{*} Based on 70% Solids.

^{**} Approximate Average

TABLE 3
POTENTIAL PARTICULATE EMISSIONS AND UTILIZATION RATES

<i>J</i> 1	Potential Particulate Emissions Booth #1	Potential Particulate Emissions Booth #2	Potential Particulate Emissions Booth #3	Utilization Rate Booth #1 lbs/hr	Utilization Rate Booth #2 lbs/hr	Utilization Rate Booth #3 lbs/hr
2-Part ACR Polyurethane	6,724 lbs/yr	13,448 lbs/yr	13,448 lbs/yr	2.84	5.67	5.67
"2-Part Epoxy Primer	261.14 lbs/yr	522.8 lbs/yr	522.8 lbs/yr	0.11	0.22	0.22
Conventional Primers	336.7 lbs/yr	673.4 lbs/yr	673.4 lbs/yr	.255	0.51	0.51
Lacquers	64.8 lbs/yr	129.6 lbs/yr	129.6 lbs/yr	0.09	0.18	0.18
Latex	31.9 lbs/yr	63.8 lbs/yr	0.002 lbs/yr	0.002	0.004	0.004
Low Solvent Shellac	136 lbs/yr	272 lbs/yr	272 lbs/yr	0.07	0.14	0.14
Alkyd Oil Base	23.3 lbs/yr	46.5 lbs/yr	÷	0.02	0.04	0.04
Miscellaneous Other Coatings	s 36.9 lbs/yr	73.8 lbs/yr	73.8 lbs/yr	0.03	0.06	0.06
TOTALS	7,615 lbs/yr - 3.81 T/yr	15,230 lbs/yr 7.61 → T/yr	7.61 T/yr			

Utilization Rates Based on Total Paint Usage Rates and 4160 hour work year (16 hrs/day, 5 days/wk, 52 wk/yr).

Potential Emissions Calculated Using Overspray Rates as Presented in Attachment #1-f of the original permit submittal.

TABLE 4
BREAKDOWN OF PARTICULATE EMISSIONS FROM PAINT SHOP SPRAY PAINT BOOTHS

Type of Coating	Particu:	late Loads	(lbs/yr)	Emiss	l Particula sions (with rols) (lbs	h	Fro	Emissions m Coating Alone (1bs	/yr)
System	Booth 1	Booth 2	Booth 3	Booth 1	Booth 2	Booth 3	Booth 1	Booth 2	Booth 3
2-Part Acrylic Polyurethane		23,588.3	23,588.3	336.2	672.4	672.4	0	0	0
2-Part Epoxy Primer	457.8	915.6	915.6	13.1	26.2	26.2	0	0	0
Conventional Primers	590.6	1,181.2	1,181.2	16.8	33.6	33.6	464	928	928
Lacquers	113.6	227.2	227.2	3.2	6.4	6.4	253	506	506
Latex	56	112	112	1.6	3.2	3.2	0	0	0
Low Solvent Shellac	238.5	4.77	477	6.8	13.6	13.6	61.5	123	123
Alkyd Oil Base	40.8	81.6	81.6	1.2	2.4	2.4	39.2	78.4	78.4
Miscell- aneous Other Coatings		129.6	129.6	1.8	3.6	3.6	43.2	86.4	86.4
TOTALS	13,356.4 1bs/yr	26,712.5 1bs/yr	26,712.5 1bs/yr	380.5 lbs/yr	761 1bs/yr	761 lbs/yr	860.9 1bs/yr	1,721.8 lbs/yr	1,721.8 1bs/yr
	6.7 t/yr	13.4 t/yr	13.4 t/yr	0.19 t/yr	0.38 t/yr	0.38 t/yr	0.43 t/yr	0.86 t/yr	0.86 t/yr

Actual Emissions were calculated using the overspray rates and objects to be coated as presented in ATTACHMENT 1-F in the original permit submittal Binks Manufacturing quote a 95% efficiency for paint arrestor type filters when used with enamels, primers, and 2-part systems.

(LBS COATING SYSTEM) X (FRACTION OF OBJECT CATEGORY) X (FRACTION OVERSPRAY) = PARTICULATE OVERSPRAY total part. load) X (FRACTION OF OBJECT CATEGORY) X (FRACTION OVERSPRAY) = OR OPTION OF OBJECT CATEGORY)

TABLE 5
UTILIZATION RATES FOR SOLVENT USAGE

Solvent System Name or Designation	Utilization Rate Booth 1 lbs/hr	Utilization Rate Booth 2 lbs/hr	Utilization Rate Booth 3 lbs/hr
PNT - 88	0.09	0.18	0.18
Acrythane Spray	0.20	0.40	0.40
Acrylic Enamel #601	0.17	0.34	0.34
Acrylic Enamel #602	0.25	0.50	0.50
Acrylic Enamel #607	0.008	0.016	0.016
Mehtanol	0.08	0.16.	016.
Z - SPAR T - 283	0.03	0.07	0.07
Lacquer #105	0.15	0.31	0.31
Amerflint Reducer	0.04	0.08	0.08
Lacquer Thinner	0.05	0.09	0.09
Acetone	0.02	0.04	0.04
Precleano	0.02	0.04	0.04
Methylene Chloride	0.009	0.02	0.02
Lacquer Reducer	0.002	0.004	0.004
Hexamethylene	0.005	0.004	0.004
Gil. Ure./Lac/18-C-135	0.02	0.04	0.04
TOTAL	1.16 lbs/hr	2.32 lbs/hr	2.32 lbs/hr

Utilization rates based on total solvent usage rates and 4160 hour work year (16 hrs/day, 5 day/wk, 52 wk/yr).

ALL SOLVENTS ARE 100% VOC

TABLE 6 POTENTIAL AND ACTUAL EMISSIONS

	Booth #1 lbs/yr	Booth #2 lbs/yr	Booth #3 1bs/yr
Total VOC Emissions (potential and actual)	5,647.3	11,294.6	11,294.6
Potential Particulate Emissions	7,615	15,230	15,230
Actual Particulate Emissions	380.5	761	761

TABLE 7 MAXIMUM EMISSIONS

	Booth #1 _lbs/yr	Booth #2 _1bs/yr	Booth #3 _lbs/yr
Maximum VOC * Emissions	3.68	7.36	7.36
Maximum Particulate	0.26	0.52	0.52

TOTALS FOR ALL THREE BOOTHS

- * Based on spraying total of 2½ gal. acrylic enamel 2½ gal. reducer (thinner) per hour, average thinner density of 7.36 lbs/gal.
- ** Based on spraying total of 5 gal./hr. 2-part acrylic polyurethane in all three booths.

TABLE 8 CONTAMINANT TYPES AND WT %

Raw Materials	WT% Particulate	WT% VOC
All Solvents	··0	100
2-Part Acrylic Polyurethane	.100	. ^0
2-Part Epoxy Primer	100	. 0
Conventional Primers	56	44
Lacquers	31	69
Latex	7 0.	<u> </u>
Low Solvent Shellac	31.7	20.5
Alkyd Oil Base	51	49
Miscellaneous Other Coatings	60	40

TABLE 9 ESTIMATE OF VOC EMISSIONS FROM NON-BOOTH RELATED ACTIVITIES

Total Solvent Withdrawals	30,372	gal
Solvents disposed of as mixed Waste Solvents	- 11,055	gal
Solvents Disposed of as waste Paints (20% of TOTAL)	- 2,651	gal
Solvents disposed of as waste ACETONE	- 5,940	gal
Solvents used in Spray Booths	- 3,361	gal
	7,365	gal of solvent used in non-booth related painting

Using an average density of 7.3, this equates to:

53,765 lbs/yr VOC Emissions

or

26.9 tons/yr VOC Emissions

From non-booth related activities.

ATTACHMENT 2

P.E.'S SIGNATURE AND SEAL FOR STAFF SHOP BOOTH #2

`.	BEST AVAILABLE COPY
	the pollution control facilities, when properly maintained and operated, will dischar 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 W. M. Market
	William H. Mack Name (Please Type)
	Walt Disney World Co.
	P.O. Box 40, Lake Buena Vista, Fly 32830
	Mailing Address (Plesse Type)
F]	orida Registration No. <u>22109</u> Data: <u>5-10-84</u> Telephone No. <u>305-828-25</u> 3
	SECTION II: GENERAL PROJECT INFORMATION
Α.	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 a necessary.
	Construction of built-in spray booth with a new york blower model #S48-1 rated at
	29,000 CFM for spray coating fiberglass molds and objects with polyester resin
	system, laquer based primers, and polyvinyl alchohol
3.	Schedule of project covered in this application (Construction Permit Application Only) Start of Construction existing booth
•	Costs of pollution control system(s): (Note: Show breakdown of astimated 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.)
	Р
	Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.
	Permit application called in by Churck Collins of Florida DER to be submitted by
	9/16/83.

DER Form 17-1.202(1)

**Factive October 31, 1982

ε.

Page 2 of 12

Attachment #3 6 Copies of Letter of Authorization





November 3, 1983

State of Florida Department of Environmental Regulation 3319 Maguire Boulevald Orlando, FL 32803

Re: Application to Operate/

Construct Air Pollution

Sources

Gentlemen:

Please be advised that Edward B. Crowell, Vice President - Facilities, has been designated to sign all papers pertaining to the enclosed application as an authorized representative of Walt Disney World Co. and Reedy Creek Utilities Co., Inc.

17:

Philip N. Smizh

Vice President - Legal and

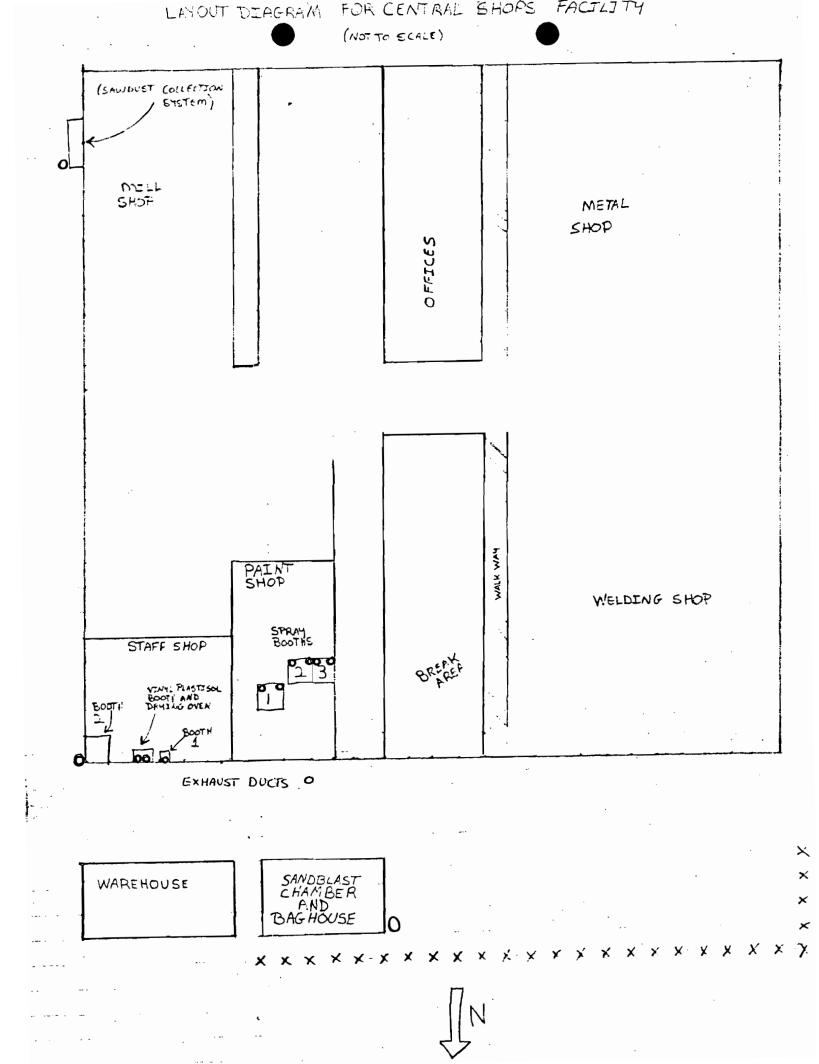
Secretary

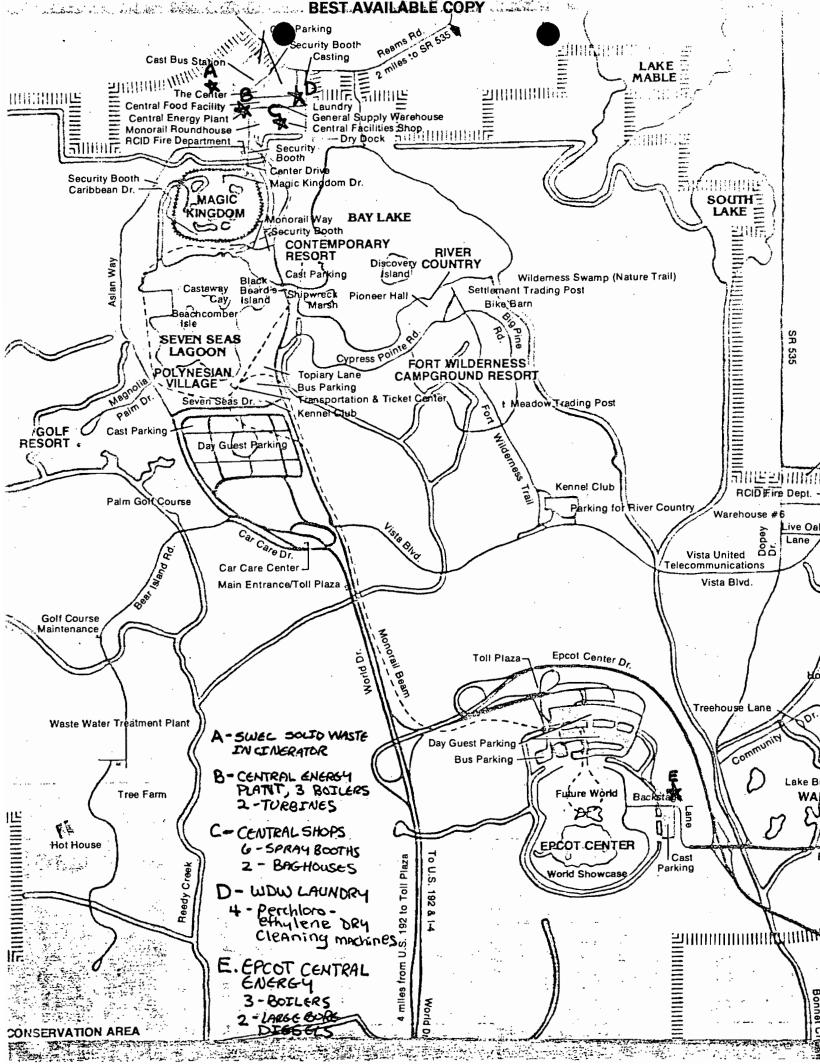
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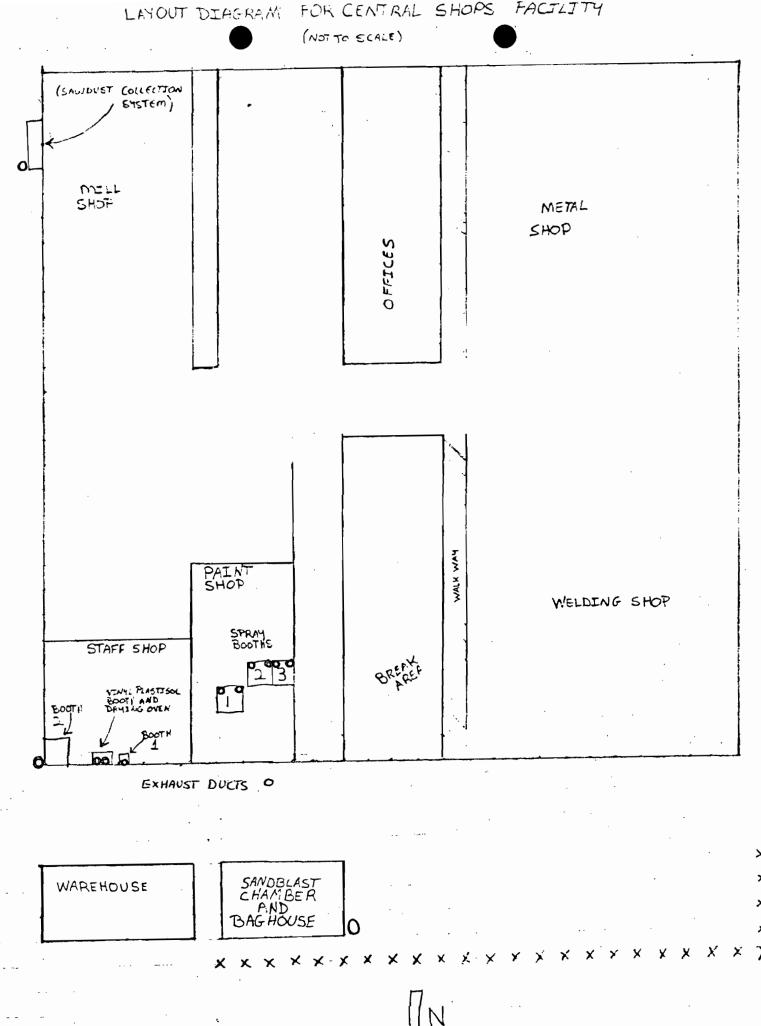
Enclosure

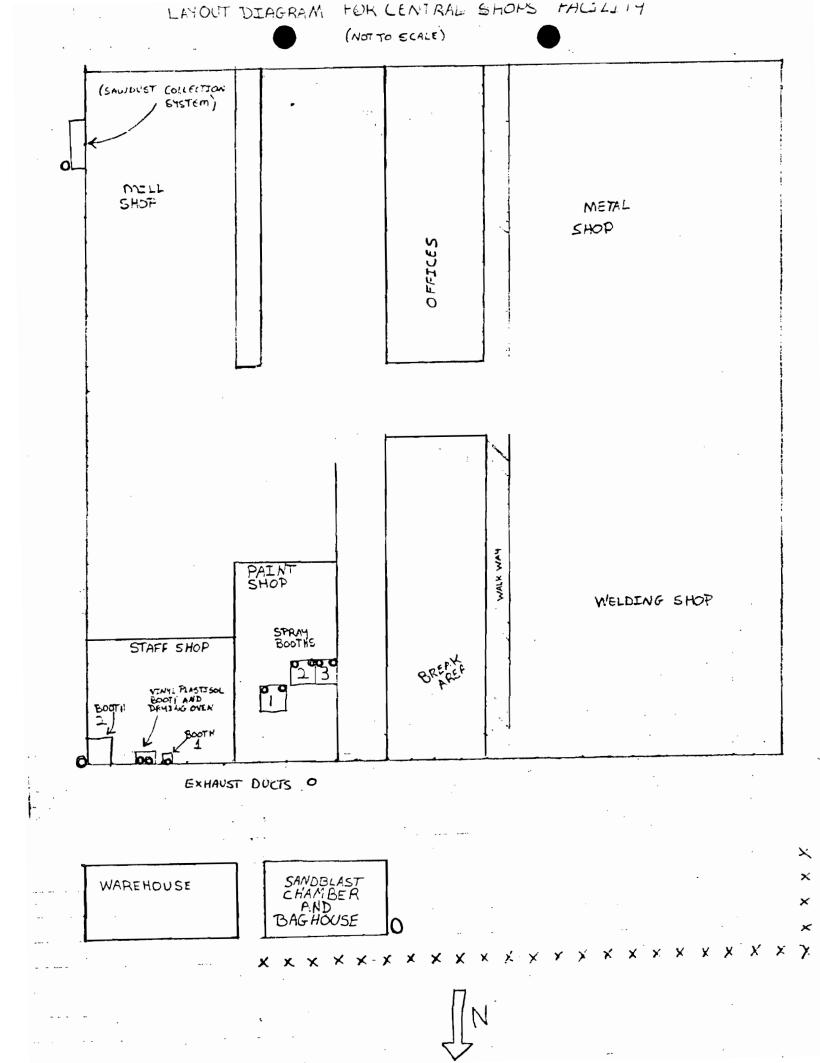
ATTACHMENT #4

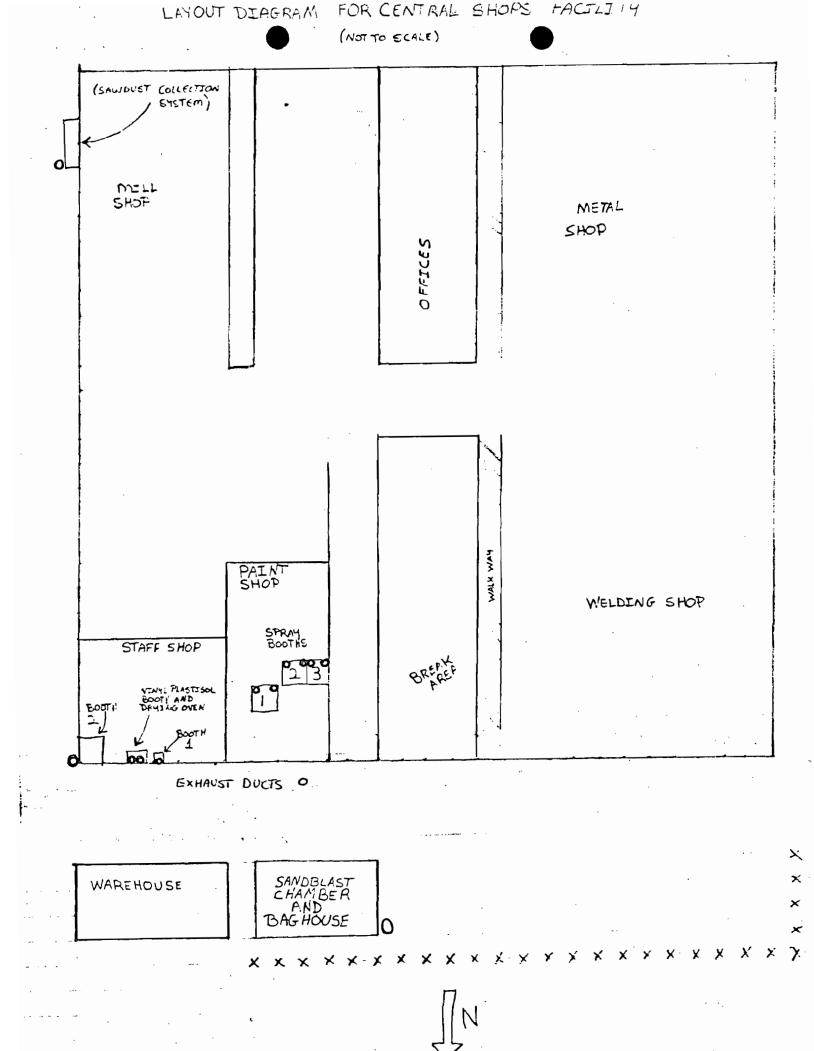
SKETCH OF FACILITY LAYOUT FOR NSA PAINT SHOP BOOTH #3

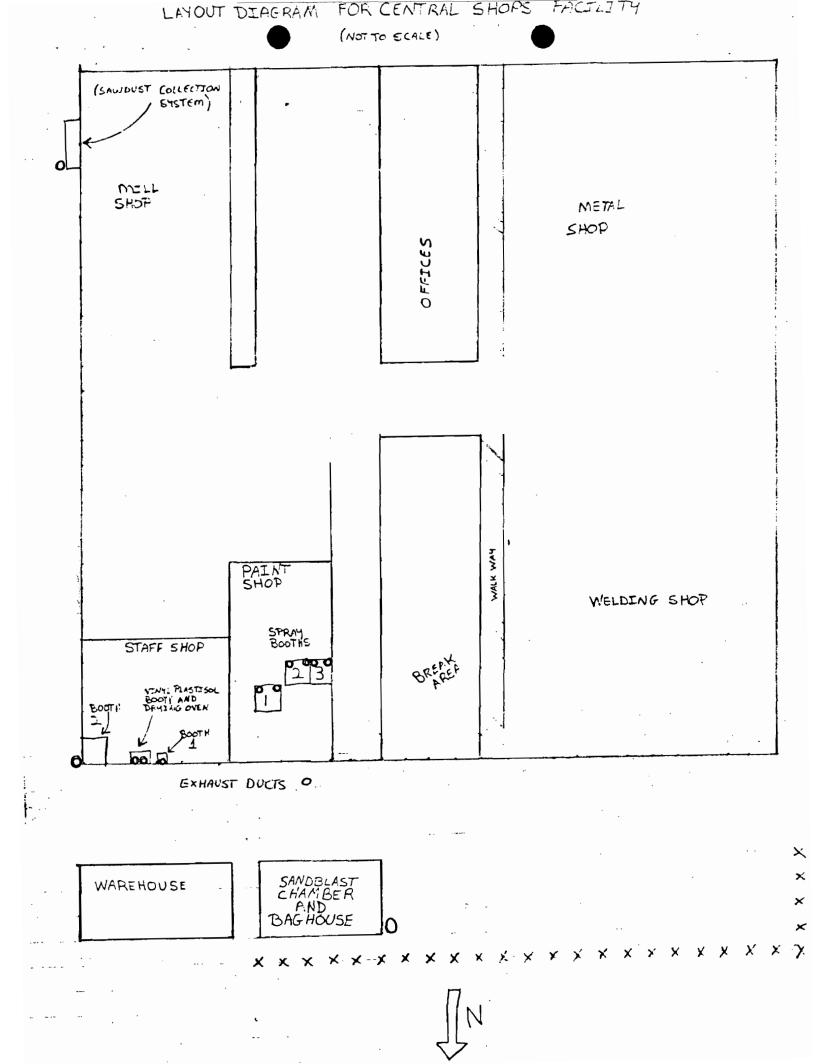


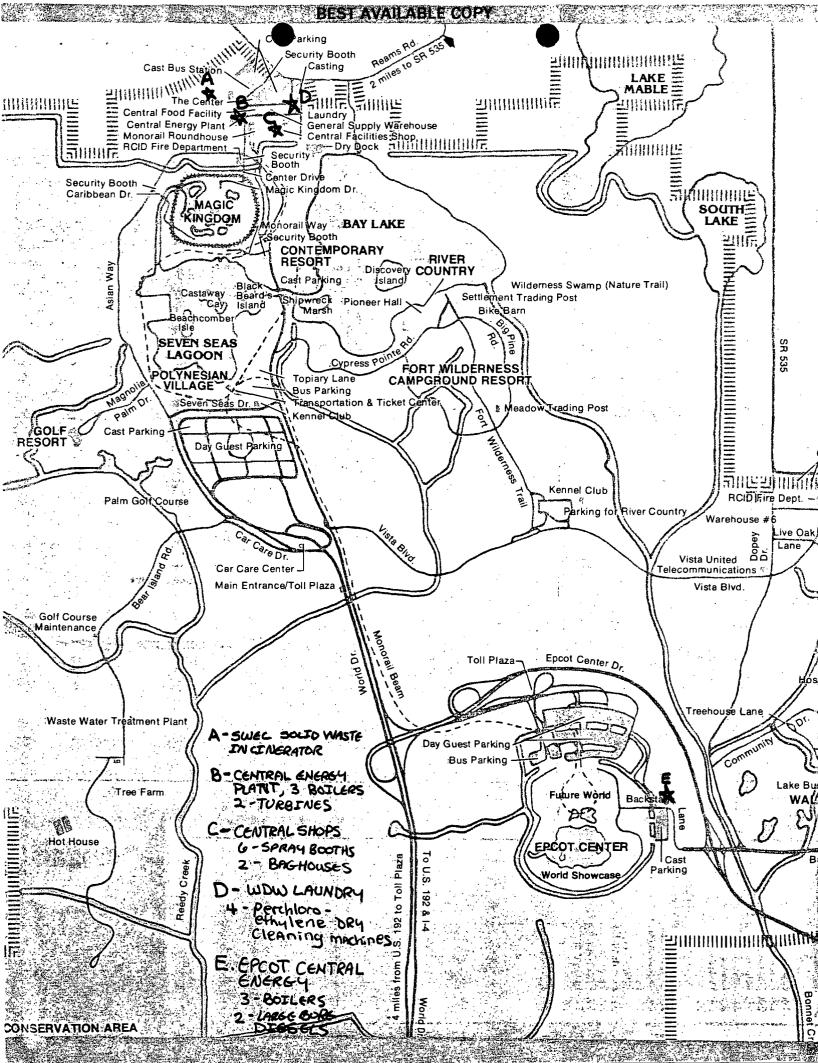


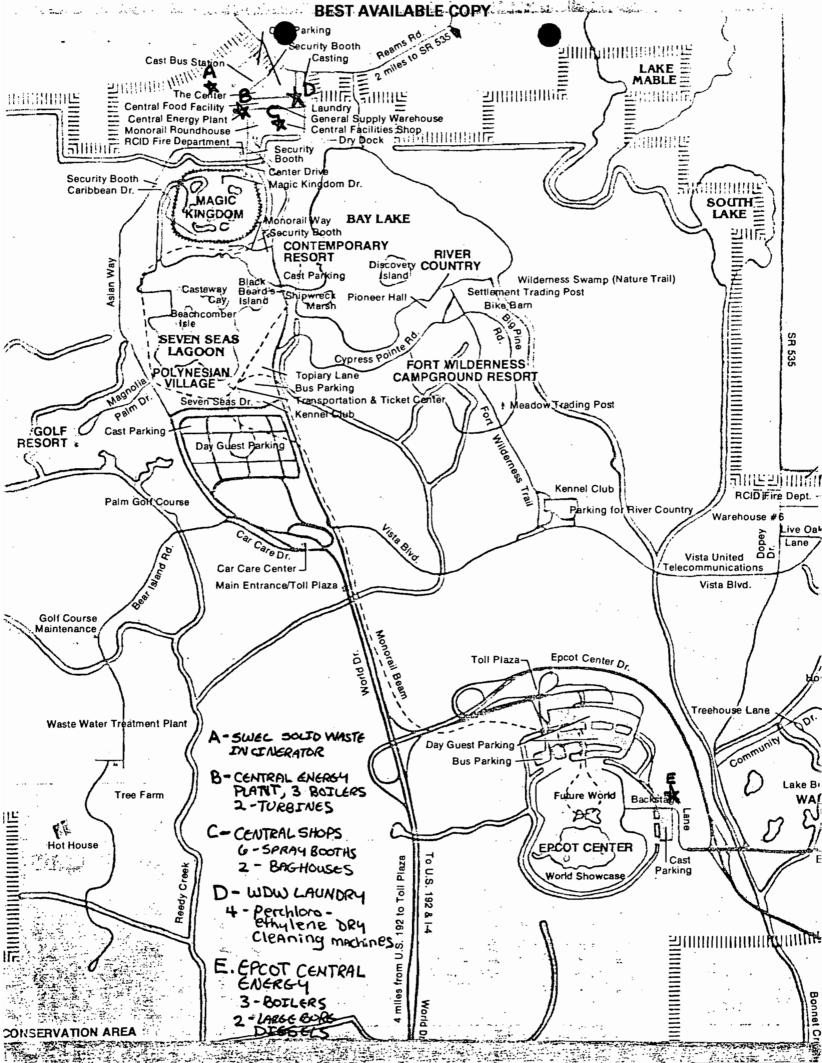


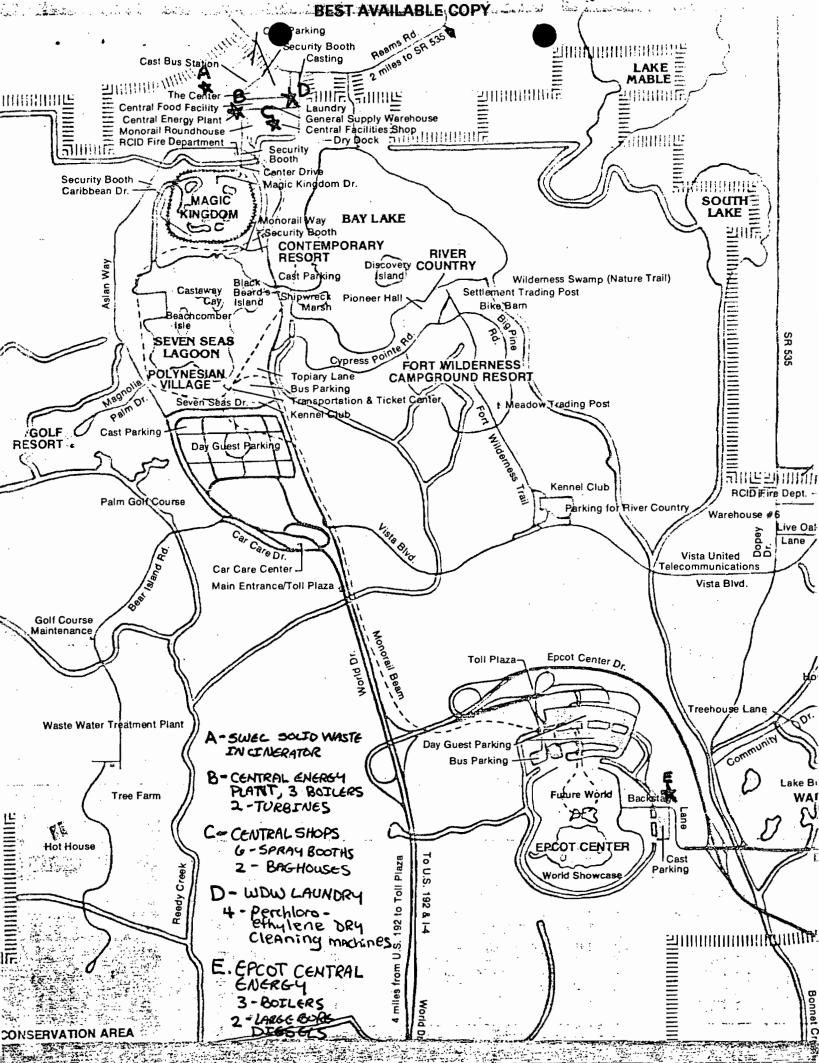












solvents be transferred to waste drums as soon as possible.

- 5. Audit the integrity of underground storage tanks to rule out solvent loss through leakage into groundwater.
- 6. Specify low solvent or waterborne coatings for jobs where applicable.
- (2. cont.) With these procedure modifications we submit that emission rates tabulated in attachment #1 represent lowest achievable emission rate for the pollutants indicated.
 - 3. ATTACHMENT #2 contains three signed and sealed pages 2 of 12 for permit application AC48-75837, NSA Staff Shop booth 32.
 - 4. Calculation of emissions resultant from the natural gas combustion in the drying oven associated with water wash plastisol booth #1 appears below:

Despatch oven company model PS-4-20 oven rated at 1.5 Mbtu/hr heat input.

Since natural gas contains approximately 1025 btu/SCF, at maximum heat input the oven will burn 1463 SCF nat gas/hr

Using 16 hrs/day, 5 days/wk, 52 wks/yr operating schedule = 4160 hrs/yr

or
6.09 x 10⁶ SCF nat gas/yr at maximum conditions

Using AP-42 emission factors for natural gas combustion for domestic and commercial boilers (10Mbtu/hr heat input) yields the following emission rates:

POLLUTANT	ED-42 EMISSION FACTOR (lbs/10 ⁶ ft)	EMISSION ESTIMATE . (lbs/yr)	(T/y·r)
Particulate	. 3	18.27	6.0 09
Sulfur Dioxide	0.6	3.7	0,000
Nitrogen Oxides	100	609	0.30
Carbon Monoxide	20	122	0.06
Non-Methane VOC	5.3	32.2	0.02
Methane VOC	2.7	16.4	0.008

TABLE 1 SOLVENT USAGE

			Approximate			
Solvent	Approximate	Total	₩ Usage In	Approximate	Approximate	Approximate
Name or	Density	Yearly	U LANG	Usage In	Usage In	Usage In
<u>Destination</u>	(lbs/gal)	<u>Withdrawa</u>	ls Booths	Booth # <u>1</u>	Booth #2	Booth #3
PNT - 88	7.3	2112 027	V 000 and 1.	11.0 C 72.7	07 0 7	07.0
LN1 - 00	7.3	243 gal	O 243 gal	48.6 gal 354.8 lbs	97.2 gal 709.6 lbs	97.2 gal
				334.0 IDS	7 U.S. , O IDS	709.6 lbs
Acrythane	7.33	9 1 4 gal	365ml 549 gal	109.8 gal	219.6 gal	219.6 gal
Spray		0	and the same of th	804.8 lbs	1609.6 lbs	1609.6 lbs
	-99H		267516			
Acrythane	8.10	360 gal	36091 0			
Brush	4.10		- 2916 -			
Acrylic	7.3	610 021	1105 077	00 7	7.00	3.00
Enamel #601	7.3	oro gai	123gal 495 gal	99 gal 727.7 lbs	198 gal 1455.4 lbs	198 gal 1455.4 lbs
Tranci #001			898165	727.,7 103	1400.4 105	1400.4 IDS
Acrylic	6.94	940 gal	188 1752 gal	150.4 gal	300.8 gal	300.8 gal
Enamel #602		0 ,	1305165	1043.8 lbs	2087.6 lbs	2087.6 lbs
Acrylic	7.3	22 gal	-0- 22 gal	4.4 gal	8.8 gal	8.8 gal
Enamel #607				32.1 lbs	64.2 lbs	64.2 lbs
Methanol	6.6	694 gal	45/91/243 gal	48.6 gal	97.2 gal	97.2 gal
	0.0	00 , gai		320.8 lbs	641.6 lbs	641.6 lbs
	DUK		2977/6s	020.0 128	0.110 100	011.0 100
Z - SPAR	7.05	4 gal	491 0			
#8	7.05					
Z - SPAR	6.98	102 1	-28-	701	0.0 0 7	00 0 7
#T - 283	0.90	193 gal	9694/97 gal	19.4 gar 135.4 lbs	38.8 gal 270.8 lbs	38.8 gal
IF 1 - 203			670165	133.4 108	270.0 IDS	270.8 lbs
Lacquer	7.2	1,468 gal	1027 441 gal	88.2 gal	176.4 gal	176.4 gal
#105		_,		635 1bs	1270 lbs	1270 lbs
	-211		7394 168			
Rustoleum	7.19	31 gal	31941 0			
Reducer	, ,,,,		-223-			
Amerflint	7.3	2711 ~~7	2.3	27 1	71, 0 - 7	71. 0
Reducer	1.3	3/4 gal	187 m 187 gal	37.4 gal 273 lbs	74.8 gal	74.8 gal
Meducer			1365165	2/3 IDS	546 lbs	546 lbs

TABLE 1 SOLVENT USAGE

Solvent Name or Destination	Approximate Density (1bs/gal)	Total Yearly Withdrawals	Approximate Usage In Paint Shop Booths	Approximate Usage In Booth #1	Approximate Usage In Booth #2	Approximate Usage In Booth #3
Amerthane ST - 535	7.19	16 gal	16 941			
Lacquer Thinner	6.0		504894/152 gal	30.4 gal 182.4 lbs	60.8 gal 364.8 lbs	60.8 gal 364.8 lbs
Acetone	6.59	6,000 gal 5	950 gal 50 gal	10 gal 65.9 lbs	20 gal 131.8 lbs	20 gal 131.8 lbs
Methylethyl Ketone	6.73	36 gal	36 ga / 0 242.2			
MHK	7.43	35 gal	35 94/ 0			
Mineral Spirit	8-18	1,250 gal	1415 1250 ga 1 0 92875 -			
Butyl/Cele/Ace	441	10 gal	10941 0			
Precleano	7.3	1,100 gal	-81- 105094 ⁵⁰ gal 7665/65	10 gal 73 lbs	20 gal 146 lbs	20 gal 146 lbs
Trichloroethyl	ene					
Methylene- Chloride	11.0	715 gal	(8594) 30 gal 7535/65	6 gal 66 lbs	12 gal 132 lbs	12 gal 132 lbs
Lacquer Reducer	6.0	5 gal	19A1 #9A1	1 gal 6 lbs	2 gal 12 lbs	l gal 12 lbs
Hexa- Methylene	7.3	?	5 gal	1 gal 7.3 lbs	2 gal 14.6 lbs	2 gal 14.6 lbs
Gil. Ure/Lac	7.3	144 gal	759165 gal	8 gal 58.4 lbs	16 gal 116.8 lbs	16 gal 116.8 lbs
TOTALS		30,372 gal	3361 gal	672.2 gal 4786.4 lbs	1344.4 gal 9572.8 lbs	1344.4 gal 9572.8 lbs
	17		627485 > 81.47Pf	23,932 lbs/yr	11.97 tor	ns/yr

TABLE 2

PAINT USAGE

Type of Coating System	Approximate Coating Density (lbs/gal)	Approximate Total Usage In Paint Shop Booths	Approximate WT % VOC In Coating	Total Particulate Loads For Booths	Potential VOC Emissions For Booths	Approximate Usage In Non-Booth Painting
2-Part Acrylic Polyurethane	9.2	6,410 gal/yr	0	58,972 lbs/yr	0	15,292 gal/yr
2-Part Epoxy Primer	10.5	218 gal/yr	0	2,289 lbs/yr	0	810 gal/yr
Conventional Primers	9.4	561 gal/yr	44 %	2,953 lbs/yr	2,320 lbs/yr	661 gal/yr 2734/6/91
Lacquers	7.9	232 gal/yr	69 %	568 lbs/yr	1,265 lbs/yr	622 gal/yr 3391 16/yr
Latex	8.0	50 gal/yr	0	280 lbs/yr*	0 Waterbase	575 gal/yr
Low Solvent Shellac	app. 7.5	200 gal/yr	20.5%	1,192.5	307.5 lbs/yr	1,164 gal/yr
Alkyd oil base	8.0	50 gal/yr	49 %	204 lbs/yr	196 · lbs/yr	1,443 gal/yr 5657 16/yr
Miscellaneous Other Coatings	9.0	60 gal/yr	40 %**	324 lbs/yr	216 lbs/yr	410 gal/yr /176 /5/y)
TOTALS				65,590 lbs/yr	4,304.5 lbs/yr 2.15 tons/yr VOC FROM COATING SYSTEMS ALONE	21,614 gal/yr 15,048 13/yr Voc 7.524 Tpy Voc

^{*} Based on 70% Solids.

^{**} Approximate Average

TABLE 3
POTENTIAL PARTICULATE EMISSIONS AND UTILIZATION RATES

Type of Coating System	Potential Particulate Emissions Booth #1	Potential Particulate Emissions Booth #2	Potential Particulate Emissions Booth #3	Utilization Rate Booth #1 	Utilization Rate Booth #2 lbs/hr	Utilization Rate Booth #3 lbs/hr
2-Part ACR Polyurethane	6,724 lbs/yr	13,448 lbs/yr	13,448 lbs/yr	2.84	5.67	5.67
2-Part Epoxy Primer	261.14 lbs/yr	522.8 lbs/yr	522.8 lbs/yr	0.11	0.22	0.22
Conventional Primers	336.7 lbs/yr	673.4 lbs/yr	673.4 lbs/yr	.255	0.51	0.51
Lacquers	64.8 lbs/yr	129.6 1bs/yr	129.6 lbs/yr	0.09	0.18	0.18
Latex	31.9 lbs/yr	63.8 lbs/yr	63.9 \$	0.002	0.004	0.004
Low Solvent Shellac	136 lbs/yr	272 1bs/yr	272 lbs/yr	0.07	0.14	0.14
Alkyd Oil Base	23.3 1bs/yr	46.5 1bs/yr	46.5 135/41	0.02	0.04	0.04
Miscellaneous Other Coating	s 36.9 lbs/yr	73.8 1bs/yr	73.8 lbs/yr	0.03	0.06	0.06
TOTALS	7,615 lbs/yr ~ 3.81 T/yr	15,230 lbs/yr 7.61 → T/yr	7.61 → T/yr	·		

Utilization Rates Based on Total Paint Usage Rates and 4160 hour work year (16 hrs/day, 5 days/wk, 52 wk/yr).

Potential Emissions Calculated Using Overspray Rates as Presented in Attachment #1-f of the original permit submittal.

TABLE 4
BREAKDOWN OF PARTICULATE EMISSIONS FROM PAINT SHOP SPRAY PAINT BOOTHS

Type of Coating	Particu:	late Loads	(lbs/yr)	Emiss	l Particula sions (with	h	Fro	Emissions om Coating Alone (lbs	s/yr)
System	Booth 1	Booth 2	Booth 3	Booth 1	Booth 2	Booth 3	Booth 1	Booth 2	Booth 3
2-Part Acrylic Polyurethane	•	23,588.3	23,588.3	336.2	672.4	672.4	0	0	0
2-Part Epoxy Primer	457.8	915.6	915.6	13.1	26.2	26.2	0	0	0
Conventional Primers	590.6	1,181.2	1,181.2	16.8	33.6	33.6	464	928	928
Lacquers	113.6	227.2	227.2	3.2	6.4	6.4	253	506	506
Latex	56	112	112	1.6	3.2	3.2	0	0	0
Low Solvent Shellac	238.5	477	477	6.8	13.6	13.6	61.5	123	123
Alkyd Oil Base	40.8	81.6	81.6	1.2	2.4	2.4	39.2	78.4	78.4
Miscell- aneous Other Coatings	64.8	129.6	129.6	1.8	3.6	3.6	43.2	86.4	86.4
TOTALS	13,356.4 lbs/yr	26,712.5 lbs/yr	26,712.5 lbs/yr	380.5 1bs/yr	761 lbs/yr	761 lbs/yr	860.9 1bs/yr	1,721.8 lbs/yr	1,721.8 lbs/yr
	6.7 t/yr	13.4 t/yr	13.4 t/yr	0.19 t/yr	0.38 t/yr	0.38 t/yr	0.43 <u>t/yr</u>	0.86 t/yr	0.86 t/yr
							Tota	2.15 ag	grees 0/16/2

Actual Emissions were calculated using the overspray rates and objects to be coated as presented in ATTACHMENT 1-F in the original permit submittal Binks Manufacturing quote a 95% efficiency for paint arrestor type filters when used with enamels, primers, and 2-part systems.

LBS COATING SYSTEM X FRACTION OF OBJECT CATEGORY X FRACTION OVERSPRAY = PARTICULATE or POTENTIAL

TABLE 6 POTENTIAL AND ACTUAL EMISSIONS

	Booth #1 lbs/yr	Booth #2 lbs/yr	Booth #3 lbs/yr /4/27
Total VOC Emissions (Voc	IN PAINT + Solvent ased		Total3.
(potential and actual)	5,647.3 2.8277	11,294.6 5.65 704	11,294.6 5.6577
Potential Particulate Emissions	7,615 3.81 +19	15,230 7.6277	15,230 7.627
Actual Particulate Emissions	380.5 0.197	761 0.38 TA	761 0.387/9

TABLE 7 MAXIMUM EMISSIONS

	Booth #1 _lbs/yr	Booth #2 lbs/yr	Booth #3 _lbs/yr
	1.77#/	3.54 7/m	3.54 #/M
Maximum VOC * Emissions	3.68	7.36	7.36
Maximum Particulate Emissions **	0.26 • 125 15/h	0.52	0.52

TOTALS FOR ALL THREE BOOTHS

- * Based on spraying total of
 2½ gal. acrylic enamel
 2½ gal. reducer (thinner)
 per hour, average thinner
 density of 7.36 lbs/gal.
- ** Based on spraying total of 5 gal./hr. 2-part acrylic polyurethane in all three booths.

TABLE 9
ESTIMATE OF VOC EMISSIONS FROM NON-BOOTH RELATED ACTIVITIES

Tota	l Solvent Withdrawals	30,372	gal
	Solvents disposed of as mixed Waste Solvents	- 11,055	gal
	Solvents Disposed of as waste Paints (20% of TOTAL)		gal
Alor O	Solvents disposed of as waste ACETONE Colored Solvents used in Spray Booths	- 5,940	gal
1000 plantial and	Solvents used in Spray Booths	- 3,361	gal.
26,88 tour		7,365	gal of solvent used in non-booth related painting

Using an average density of 7.3, this equates to:

53,765 lbs/yr VOC Emissions

or

26.9 tons/yr VOC Emissions

From non-booth related activities.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

BOB GRAHAM
GOVERNOR
TALLAHASSEE, FLORIDA 32301-8241

BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

January 3, 1984

Mr. Edward B. Crowell, Vice President Facilities Division Walt Disney World Company, Inc. P. O. Box 40 Lake Buena Vista, Florida 32830

Re: Construction Applications AC 48-75833, AC 48-75834, AC 48-75835, AC 48-75836, AC 47-75837 and AC 48-75838

Dear Mr. Crowell:

The Bureau of Air Quality Management has received your response to our letter of October 17, 1983. The construction permit applications are still incomplete for the following reasons:

- 1. Please indicate the original construction date and date of initial use of NSA Staff Shop Spray Booth #2 and the date of initial use of NSA Staff Shop Spray Booth #1.
- 2. Your proposal to install controls or procedure modifications only on NSA Paint Shop Booths #1, #2, and #3, as we understand it, would constitute a bubble. Before this can be considered by the department, we must have information on how the process will be controlled.
- 3. Permit application AC 48-75837, NSA Staff Spray Booth #2, was submitted without the signature of the professional engineer. Please resubmit page 2 of 12, DER form 17-1.202(1), for this application.
- 4. In your letter of December 6, 1983, you state the curing oven for Water Wash Plastisol Booth #1 is heated by natural gas. Please submit all required information in Section III of the permit application for the natural gas fired curing oven.

The following information was not enclosed with your letter of December 6, 1983.

- A. A letter of authorization as required in Section I, Subsection A for each application.
- B. A sketch of the facility layout for NSA Paint Shop Booth #3.

Edward B. Crowell January 3, 1984 Page Two

- A plot plan of the location of process and outlets for NSA Staff Shop Spray Booth #1.
- A plot plan of the location of process and outlets for NSA Staff Shop Spray Booth #2.
- A plot plan of the location of process and outlets for Water Wash Plastisol Booth #1.

Also, in light of the information on paint usage provided by Mr. Fred Harden on December 30, 1983, please provide information on emissions and show all calculations for the use of low solvent or waterborne coatings.

As soon as all the requested information is received, we will resume processing your applications. If you have any questions on these matters, please call Edward Svec, Review Engineer, at (904) 488-1344 or write to me at the above address.

Sincerely,

H. Fancy, P.E.

Deputy Chief

Bureau of Air Quality

Management

CHF/ES/bjm

cc: C. Collins, DER St Johns River District

and No. 297605 DATE 11/11/83 AMBOINT FOR RECK PAY THE SUM OF *******300.00 TO THE ORDER OF FLA DEPT ENVIRONMENTAL REGULATION 2600 BLAIR STONE RD FL 323018 TALLAHA SSEE SUN BANK, N.A. DOWNTOWN OFFICE LANDO, FLORIDA 32802 REMITTANCE ADVICE 297605 PAYEE NO. 3000046492 0001919 REFERENCE NO. REMITTANCE ADVICE: PAYING AGENT FOR WALT DISNEY WORLD CO .00 300.00 ADDITIONAL PERMITTING FEES FOR SPRAY PA INT BOOTHS IN THE NORTH SERVICE AREA TOTAL: 300.00 .00 STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

300.

300.

Application Number AC 44-75834

Source of Revenue

December 6, 1983

Mr. C. H. Fancy, P.E., Deputy Chief Bureau of Air Quality Management FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32301 DER DEC 1 2 1983 BAOM

re: Construction Applications AC 48-75833, AC 48-75834, AC 48-75835 and AC 48-75838

Dear Mr. Fancy:

In response to your letter of October 17, 1983, we have prepared the following point by point responses to your requests for additional information concerning the above referenced air pollution sources:

1. Booth	Approximate Construction Date	Approximate Date of Operation
Paint Shop #1	10/81	12/81
Paint Shop #2	10/81	12/81
Paint Shop #3	10/81	12/81
Staff Shop #1	1970	
Vinyl Plastisol/		
Curing Oven #1	1/83	2/83

2. We are not at this time able to provide the information for a Lowest Achievable Emission Rate (LAER) determination. We do, however, recognize the necessity of providing either process modifications or add on controls to limit VOC emissions from these Paint Spray Booths and are in the process of finding and retaining a suitable consultant to specify the proper emission reduction procedures.

The emission reduction schemes under consideration include:

- a. Substitution of low solvent or waterborne coatings
- b. Installation of thermal combustion equipment
- c. Installation of carbon absorber system
- d. Use of exhaust for make-up air in existing boilers WALT DISNEY WORLD CO.

P.O. BOX 40 · LAKE BUENA VISTA, FLORIDA 32830 COPYRIGHT WALT DISNEY PRODUCTIONS

Construction Applications December 6, 1983 Page Two

We will provide details of control choice and installation scheduling as soon as they are available to us. We are committed to providing whatever is necessary to bring these sources into compliance and to meet any LAER requirements at the earliest possible opportunity.

Since the three booths at the Paint Shop (AC 48-75833, AC 48-75834, AC 48-75835) account for 99 percent of the total VOC emission from these six sources, we propose to install controls or procedure modifications on these three booths only, subject, of course, to department approval.

3. Six copies of the letter of authorization are enclosed.

The information requests specific to individual permits, which are provided point by point as follows:

- A. The \$150 additional permitting fee is included as part of the \$300 check which is enclosed.
- B. 1. The \$150 additional permitting fee is included as part of the \$300 check which is enclosed.
 - 2. The stack diameter, as indicated in attachment #1 (I) to the application, is 3.5 feet.
 - Three copies of the facility layout sketch are enclosed.
 - 4. The proper flow rate for each of two exhaust fans is 24,250 SCFM at 1/4" WC static pressure.
- C. 1. Three copies of the plot plan are enclosed.
 - 2. The calculation of gas flows and velocities proceeds as follows:

The flow rate based on manufacturer's specifications is 24,800 SCFM at 1/4" WC static pressure. The stack diameter is 3.5 feet.

The cross sectional area of the stack is expressed as TTR^2 where the radius is 1.75 feet, $(3.14)(1.75)^2 = 9.62$ square feet.

 $(24,800 \text{ SCFM}) \div (9.62 \text{ sq. ft.}) = 2,578 \text{ FPM}$ $(2,578 \text{ FPM}) \div (60 \text{ sec/min}) = 42.97 \text{ FPS}$ Construction Applications December 6, 1983 Page Three

- D. 1. Three copies of the plot plan are enclosed.
 - 2. The calculation of gas flow rate and velocity proceeds as follows:

The flow rate based on manufacturer's specifications is 29,000 CFM at 2" WC static pressure. The stack dimensions are 5 ft. x 3.4 ft. or 17 square feet.

$$(29,000 \text{ SCFM}) \div (17 \text{ sq ft}) = 1,706 \text{ FPM}$$

 $(1,706 \text{ FPM}) \div (60 \text{ sec/min}) = 28.4 \text{ FPS}$

- E. 1. Three copies of the plot plan are enclosed.
 - 2. The calculations of gas flow rates and velocities proceed as follows:

For the spray booth:

The gas flow rate based on manufacturer's specifications is 16,800 SCFM at 4.2" WC static pressure. The stack diameter is 2.75 ft. (radius = 1.375) The cross sectional area = $\Pi R^2 = (3.14)(1.375)^2 = 5.94$ sq ft (16,800 SCFM) \div (5.94 sq ft) = 2,828 FPM (2,828 FPM) \div (60 sec/min) = 47.1 FPS

For the curing oven, the gas flow rates and velocities should be corrected as follows:

Manufacturer's specifications flow rate = 3,000 DSCFM

Volume at std conditions = QSTD QSTD = QE x $\frac{530}{TE}$ x $\frac{PE}{29.92}$

In one minute 3,000 SCF of air is discharged.

QE = Volume at gas exit conditions

 $TE = Temperature at gas exit conditions = <math>350^{\circ}F$

PE = Average atmospheric pressure = 29.94 in Hg

3,000 SCF = QE x $\frac{530}{810}$ x $\frac{29.94}{29.92}$ = 3,000 SCF = QE x 0.65 x 1.001

QE = 4611 CF

Therefore in one minute at exit gas conditions 4,611 CF of air is discharged or a flow of 4,611 CFM is present.

Construction Applications December 6, 1983 Page Four

The stack dimensions are 1 ft \times 1.3 ft or 1.3 sq ft. Therefore the exit gas velocity may be calucated as follows:

4611 CFM \div 1.3 sq ft = 3547 FPM 3547 FPM \div 60 sec/min = 59.11 FPS at exit gas conditions.

- 3. Exit gas temperature is $350^{\circ}F$.
 - 4. The curing oven is heated using natural gas.

If you need any additional information , please contact Ted McKim at (305) 824--4950.

Sincerely,

EDWARD B. CROWELL

Vice President Facilities Division

EBC:CSK:1p

Enclosures

BEST AVAILABLE COPY



December 6, 1983

Mr. C. H. Fancy, P.E., Deputy Chief Bureau of Air Quality Management FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32301 DER UEL 12 1983 BAQM

re: Construction Applications AC 48-75833, AC 48-75834, AC 48-75835 and AC 48-75838

Dear Mr. Fancy:

In response to your letter of October 17, 1983, we have prepared the following point by point responses to your requests for additional information concerning the above referenced air pollution sources:

Booth	Approximate Construction Date	Approximate Date of Operation
Paint Shop #1	10/81	
Paint Shop #2	10/81_	
Paint Shop #3	10/81	12/81
Staff Shop #1	1970	
Vinyl Plastisol/		
Curing Oven #1	1/83	2/83

ACC 2.

We are not at this time able to provide the information for a Lowest Achievable Emission Rate (LAER) determination. We do, however, recognize the necessity of providing either process modifications or add on controls to limit VOC emissions from these Paint Spray Booths and are in the process of finding and retaining a suitable consultant to specify the proper emission reduction procedures.

The emission reduction schemes under consideration include:

- a. Substitution of low solvent or waterborne coatings
- b. Installation of thermal combustion equipment
- c. Installation of carbon absorber system
- d. Use of exhaust for make-up air in existing boilers WALT DISNEY WORLD CO.

PO BOX 40 LAKE BUENA VISTA FLORIDA 32830

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION BOB GRAHAN TWIN TOWERS OFFICE BUILDING GOVERNO 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32301-8241 VICTORIA J. TSCHINK. SECRETARY October 17, 1983 CERTIFIED MAIL - RETURN RECEIPT REQUESTED Mr. Edward B. Crowell, Vice President Facilities Division Walt Disney World Company, Inc. P. O. Box 40 Lake Buena Vista, Florida 32830 Construction Applications AC 48-75833, AC 48-75834, AC 48-75835, AC 48-75836, AC 48-75837 and AC 48-75838 Dear Mr. Crowell: The Bureau of Air Quality Management has received your applications for construction permits submitted to our St. Johns River District office on September 22, 1983. Since these applications represent a major modification to an air pollution facility, they were referred to Central Air Permitting in Tallahassee, Florida for review on October 3, 1983. We have determined that all applications are incomplete in the following areas: Since you indicate that the facilities are existing, please indicate the original construction dates and the dates of initial use of each source. dete Auswer In accordance with Florida Administrative Code Rule Section 17-2.510(2)(d)2 the method for compliance with FAC 17-2.510(4) must be stated for each application. In Section I, Subsection A, please submit a letter of authorization as required for each application. In addition to the above information, we also require specific information by application as follows: Rec Det 12/19/13 1) AC 48-75834 - NSA Paint Shop Booth #2 As specified in FAC 17-4, an additional \$150.00 is required. AC 48-75835 - NSA Paint Shop Booth #3 Protecting Florida and Your Quality of Life

Edward B. Crowell October 17, 1983 Page Two

As specified in FAC 17-4, an additional \$150.00 is required.

3.5 ft 2) Stack diameter must be specified.

3) Sketch of facility layout is required.

Is the correct SCFM for the exhaust fan 23,250 or 24,250 SCFM?

C) AC 48-75836 - NSA Staff Shop Spray Booth #1

A plot plan for the location of process and outlets is required.

42.97 \$6 2) Provide the calculations for the gas flow rates and V velocities.

D) AC 48-75837 - NSA Staff Shop Spray Booth #2.

1) The signature of the professional engineer is required.

A plot plan for the location of process and outlets is required.

28.4 fm 3) Provide the calculations for the gas flow rates and V velocities.

E) AC 48-75838 - Water Wash Plastisol Booth #1.

Notice 1) A plot plan for the location of process and outlets is required.

41.1/59.11 Provide the calculations for the gas flow rates and velocities for the spray booth and the curing oven.

350°F 3) Provide the gas exit temperature for the curing oven.

Specify how the air is heated for the curing oven.

Edward B. Crowell. October 17, 1983 Page Three

As soon as the requested information is received, we will resume processing your applications. If you have any questions on these matters, please call Edward Huck, Review Engineer, at (904)488-1344 or write to me at the above address.

Sincerely,

C. H. Fancy, P.E.

Deputy Chief

Bureau of Air Quality

Management

CHF/EH/bjm

cc: C. Collins, DER St. Johns River District

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DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

October 17, 1983

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Edward B. Crowell, Vice President Facilities Division
Walt Disney World Company, Inc.
P. O. Box 40
Lake Buena Vista, Florida 32830

RE: Construction Applications AC 48-75833, AC 48-75834, AC 48-75835, AC 48-75836, AC 48-75837 and AC 48-75838

Dear Mr. Crowell:

The Bureau of Air Quality Management has received your applications for construction permits submitted to our St. Johns River District office on September 22, 1983. Since these applications represent a major modification to an air pollution facility, they were referred to Central Air Permitting in Tallahassee, Florida for review on October 3, 1983. We have determined that all applications are incomplete in the following areas:

- 1. Since you indicate that the facilities are existing, please indicate the original construction dates and the dates of initial use of each source.
- 2. In accordance with Florida Administrative Code Rule Section 17-2.510(2)(d)2 the method for compliance with FAC 17-2.510(4) must be stated for each application.
- 3. In Section I, Subsection A, please submit a letter of authorization as required for each application.

In addition to the above information, we also require specific information by application as follows:

- A) AC 48-75834 NSA Paint Shop Booth #2
 - 1) As specified in FAC 17-4, an additional \$150.00 is required.
- B) AC 48-75835 NSA Paint Shop Booth #3

Edward B. Crowell October 17, 1983 Page Two

- 1) As specified in FAC 17-4, an additional \$150.00 is required.
- 2) Stack diameter must be specified.
- 3) Sketch of facility layout is required.
- 4) Is the correct SCFM for the exhaust fan 23,250 or 24,250 SCFM?
- C) AC 48-75836 NSA Staff Shop Spray Booth #1
 - A plot plan for the location of process and outlets is required.
 - 2) Provide the calculations for the gas flow rates and velocities.
- D) AC 48-75837 NSA Staff Shop Spray Booth #2.
 - The signature of the professional engineer is required.
 - 2) A plot plan for the location of process and outlets is required.
 - 3) Provide the calculations for the gas flow rates and velocities.
- E) AC 48-75838 Water Wash Plastisol Booth #1.
 - 1) A plot plan for the location of process and outlets is required.
 - 2) Provide the calculations for the gas flow rates and velocities for the spray booth and the curing oven.
 - 3) Provide the gas exit temperature for the curing oven.
- 4) Specify how the air is heated for the curing oven.

Edward B. Crowell October 17, 1983 Page Three

As soon as the requested information is received, we will resume processing your applications. If you have any questions on these matters, please call Edward Huck, Review Engineer, at (904)488-1344 or write to me at the above address.

Sincerely,

C. H. Fancy, P.E.

Deputy Chief

Bureau of Air Quality

Management

CHF/EH/bjm

cc: C. Collins, DER St. Johns River District

BEST AVAILABLE COPY

LAKE BUENA VISTA, FLORIDA

63-219

115 09/28/83

CHECK NO. 274629

AMOUNT OF CHECK

*******1,000.00

WALT DISNEY WORLD CO.

TOL SURFOR **************** 1,000 DOLLARS AND DO CENTS

" ROLR OF

FLA DEPT ENVIRONMENTAL REGULATION 2600 BLAIR STONE RD TALLAHASSEE FL 32301

SUR, N.A CATH CEHICE L 56 C1A 32002

Walt Isney World. LAKE BUENA VISTA, H ORIDA 32830 - TELE (505) 824-2222

BEFORL DEFLICE

3000046492 INVOICE NO.

COGNUTER NO - 0001582 PURCH. MDSE. ORDER NO.

DISCOUNT

MITTANCE ADVICE: PAYING AGENT FOR WALT DISNEY WORLD CO 457652 CK R 092783 1.000.00

EMERGENCY GENERATORS EPCOT PERNIT

FEE TOTAL:

1,000.00

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1,000.0

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DEPARTMENT OF ENVIRONMENTAL REGULATION

FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Scurce of Revenue

Information Needed

Censity of Acrythane Brush Solvent

Z-SPAR #8

density of Brust oleum Reducen Solvent

Amerthane ST-35

"Methylethyl Keytone
"MHK
"MINERAL Spirits
"Butyl/Cele/ACE

Yearly withdrawl of Hexa-Methyleve Solvent

ANTICIPATE ANY Wags of Trichloroethyleve Solvent

Table 7 - Maximum Emissions - Explain unit

165/Year

Slow Particulate enissions for non-booth painting Any Solvent accovery from any of the booths?

VOC Emissions

Booth #3 Book #2 Booth #/ TBLZEA Costings 0.86 TPY 0.43 tpy 0.86 +84 Solvents 6.76 TP9 TELL 75/6 7,62 TPY TOTAL 3-81 784 Total follow TELL WAGE 2.39 TPY 4,79 TPY 4.79 TP4 who the lifterone from Sofvent aminion & Solvent way Non Booth: T&2 Coatings 7.52 TPY 7829 Solvents 26.88 TP4 70tal 34,40 TP4 deferance due to reclaim & disposal Total Solvent Usage: 81.37 tpy

	JUBJECT; APPLICATIONS TO	CONSTRUCT PIR POLLUTION
	SOURCES;	
	1	
	APPULATION REFERENCE	ASIENED DER APPLICATION MUN
O	NSA PAINT SHOP PAINT	AC 48-75833
	BOOTH # 1	
(2)	NSA PAINT SHOP PAINT	Ac 48-75834
	BOOTH# 2	
•		
(3)	WSA PAINT SHOP PAINT	ACA8775835
	B0074#3	·
4	NSA STAFF SHOP	AC 48-75836
	SPRAY BOOTH #1	
		· · · · · · · · · · · · · · · · · · ·
0	USA STAFF SHOP	AC 48-75837
	SPRAY BOOTH # 2	
-		
(WATER WASH PLASTISOL	AC 48-75838
-	BOOTH #1	
		•
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Particulate Emissions

.

Booth # 2 Booth # 3
Potential 3.8/TPY 7.62 TPY 7.62 TPY
actual (Control) 0.19 TPY 0.38 TPY 0.38 TPY

No Particulate Emission figures for Non-book Spray painting were presented.

State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

For Routing To District Offices And/Or To Other Than The Addressee		
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ST. JOHNS RIVER DISTRICT

TO:

Bill Thomas (

THROUGH:___

A. Senkevich

THROUGH: ~

T. Hunnicutt

FROM: —

c. Collins cmc

DATE:

October 3, 1983

SUBJECT:

Major Source Permit Applications for WDW

These sources add up to 125 TPY VOC emissions and were sent to us by mistake.

They are all already built and in use today, but should be handled as new construction with the public notice, fee, etc. They submitted seven (7) applications, one of which was a small particulate source that we are keeping. They have paid a total of \$700.00 or \$100.00 per application. If we use \$100. for the source we are keeping the remaining \$600.00 goes to these six (6) paint spray booths. Additional fees should be requested to complete the fee requirement.

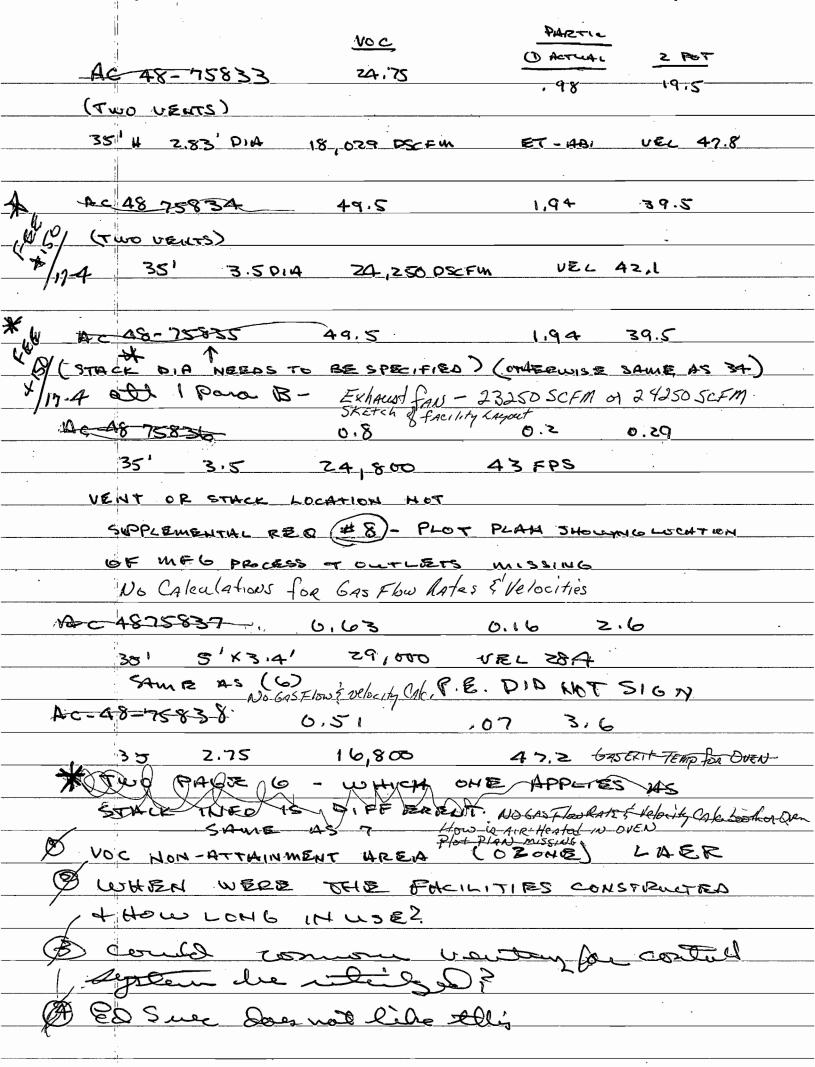
CMC:rce

CSDW Fred Horden 1/4/84 RACT Existing for Shout ~ 4 1/6al Solvent Excluding HgO

Sources 17.2-650 Flat Wood Paneling - Metal

prior Examinat (17.2-650 (1) F 14.a (1))

nor, 29 Fiberglass 17.2-510 Exempt H.C. Rule for New Const.



Outdoor spray painting of building Gasoline sve. sta - Pub é PVT

Laundry / dry cleaner.

AC 48-75036 NSA STATE Edge Great for/10/ AC 93-75857 NSA Staff Shope Spiny Boff Fy AC 28-75878 Water Wash Fested Booth 11 ARE Complete - who phase we on a Bolem 20 - of " Myronia & for Day 30 to 618/1-

U. Janes J. 2,48#/h

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REEDY CREEK UTILITIES CO.. INC.

P.O. BOX 40 . LAKE BUENA VISTA, FLORIDA 32830 (305) 824-4024

September 21, 1983

cme

Bell thomas

Cohy to

Florida Dept. of Environmental Regulation 3319 Maguire Blvd., Suite 232 Orlando, FL 32803

Dear Mr. Collins:

In response to your request for permit application submittals for air pollution sources at the Central Shops Facilities at WALT DISNEY WORLD Co., Inc., seven construction permit applications are enclosed. The sources in these permits are:

- -1) Paint Shop sandblast chamber baghouse
 - 2) Paint Shop spray booth #1
 - 3) Paint Shop spray booth #2
 - 4) Paint Shop spray booth #3
 - 5) Staff Shop spray booth #1
 - Staff Shop spray booth #2
 - Water wash plastisol booth and curing oven #1

Also enclosed are the permit fees totaling \$700. These are the major sources of air pollution at the Central Shops Facility.

It should be noted, however, that additional sources may exist elsewhere on WALT DISNEY WORLD property that require additional permit submittals. A survey of each maintenance area will be completed soon, which should reveal any additional sources, if there are any.

It is our continuing desire to provide the regulatory agencies with whatever data necessary to bring all pollution sources into compliance.

Sincerely,

Chiis & Korl

Chris S. Kohl Hazardous Waste Coordinator

CKS:sk

encl.

cc: Ted Crowell w/o Bill Higgins w/o Gary Gornto w/o

Bob Kohl w/o

Fred Harden w/o Arnold Lindberg w/o Ted McKim w/o

State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

Routing To District Offices To Other Than The Addressee	
To:	Loctn.:
To:	Loctn.:
To:	Loctn.:
From:	
Reply Optional []	Reply Required [] Info. Only [
Date Due:	Date Due:

DER

ST. JOHNS RIVER DISTRICT

TO:

Bill Thomas (

THROUGH:

A. Senkevich

THROUGH:

T. Hunnicutt

FROM:

C. Collins

DATE:

October 3, 1983

SUBJECT:

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CMC:rce

BEST AVAILABLE COPY

STATE OF FLORIDA

AC 48-75833

DEPARTMENT OF ENVIRONMENTAL REGULATION

OT. JOHNS RIVI DISTRICT 319 MAGULAEROU UITE 232 RLANDO, FLORIDA	7983 A 32800 5 7983	Tur or post		BOB GRAHAM GOVERNOR ORIA J. TSCHINKEL SECRETARY ALEX SENKEVICH STRICT MANAGER
		TO OPERATE/CONSTRUCT	AIR POLLTION SOURCE	r FR
	PE: Spray Paint Bo		New [X] Existing	4000
			[] Modification OCT 6	
	ME: WALT DISNEY WOR		COUNTY: 0	71/4
Identify t	the specific emissio	n point source(s) addr	ressed in this application	Shop Paint
Kiln No. 4	with Venturi Scrub	ber; Peaking Unit No.	2, Gas Fired) Booth #1	
SOURCE LOC	ATION: Street Fac	cilities Way	City Bay	Lake
	UTM: East_4	143527	North 3144316	•
· ·	Latitude 28	3 • 25 · 32 ···N	Longitude 81 ° 3	4 ' <u>36 ''</u> w
APPLICANT	NAME AND TITLE: Edv	vardB: Crowell, Vice	President Facilities Div	ision
- A.		10, Lake Buena Vista F	4	
	SECTION	I: STATEMENTS BY APPL	ICANT AND ENGINEER	
A. APPLIC	ANT			· .
I am t	he undersigned owne	r or authorized repres	entative* of WALT DISNEY	WORLD Co.
permit I agre facili Statut also u and I	are true, correct of the to maintain and ties in such a man es, and all the rule nderstand that a pe	and complete to the be operate the pollutioner as to comply with es and regulations of rmit, if granted by t	ication for a <u>construct</u> est of my knowledge and be in control source and point the provision of Chapt the department and revision department, will be in sale or legal transfer o	llef. Further, llution control er 403, Florida lons thereof. I contransferable
*Attach le	tter of authorizati	on Signed:	MINAU D. LLA	(114)
and a Section		Na	B. Crowell, V.P. Facilitime and Title (Please Type	es Division
The state of the s	and the second s	Date:	Telephone No. (30	5) 824-7700
B. PROFES	SIONAL ENGINEER REG	ISTERED IN FLORIDA (wh	ere required by Chapter 4	71, F.S.)
been 8 princi			s of this pollution contr	
permit	ples applicable to		posal of pollutants chara ance, in my professional	cterized in the

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

an effluent that complies we rules and regulations of the furnish, if authorized by the maintenance and operation of the second	lities, when properly maintained and operated, will discharge with all applicable statutes of the State of Florida and the ne department. It is also agreed that the undersigned will the owner, the applicant a set of instructions for the proper of the pollution control facilities and, if applicable,
polition sources.	Stand Landy My Mills
Transfer of the state of the st	Signed Signed
City	Name (Please Type)
19 o 8 68 11	
STERE STERE	Reedy Creek Utilities Co., Inc. Company Name (Please Type)
	Company Name (Flease 1904)
The state of the s	P.O. Box 40 Lake Buena Vista, FL 32830 Mailing Address (Please Type)
WEER ZEE	
orida Registration No 2555	5 Date: $9/2/83$ Telephone No. (305) 824-4950
SECTIO	N II: GENERAL PROJECT INFORMATION
and expected improvements i	ent of the project. Refer to pollution control equipment, in source performance as a result of installation. State sult in full compliance. Attach additional sheet if
Spray paint booth for coa	ting a variety of objects including vehicles, wooden
furniture, trash cans, ri	de components, posts and frames using 2 part polyurethane.
2 part acrylic, epoxy pri	mers and other primer coating systems.
	in this application (Construction Permit Application Only)
Start of Construction <u>exi</u>	sting booth Completion of Construction N/A
for individual componenta/u	system(s): (Note: Show breakdown of estimated costs only inits of the project serving pollution control purposes: shall be furnished with the application for operation
Indicate any previous DER p point, including permit iss	ermits, orders and notices associated with the emission wance and expiration dates. NONE
Permit applications called	d in by Chuck Collins of Florida DER to be submitted
by 9/16/83.	
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Requested permitted equipment operating time: hrs/day 16 ; days/wk 5	_; wks/yr <u>52</u>
if power plant, hrs/yr; if seasonsl, describe:	
If this is a new source or major modification, answer the following ques (Yes or No)	tions.
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. VOC	
2. Does best svailable control technology (BACT) apply to this source? If yes, see Section VI.	no
 Does the State "Prevention of Significant Deterioristion" (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?	<u>no</u>
5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to thie source?	no
Do "Ressonably Available Control Technology" (RACT) requirements apply to this source?	no
B. 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". Attackation for any answer of "No" that might be considered questionable.	h any justif

No RACT guidelines for this type of surface coating operations

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

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

See attachment #1, Part H

Contami Type		Utilization			
.,,,,,	x wt	Rate - 1bs/hr	Relate to Flow Diagram		
VOC/ particulate	0%	10.1	Paint application		
VOC/	0%	5.0	Paint application		
VOC/parti-	0%	1.2	Paint application		
VOC/	100%	0.4	Paint application		
particulate	51% 49%	11.8	Thinner for paint appli-		
2	VOC/ particulate VOC/ particulate VOC/parti- culate VOC/ particulate	VOC/ 0% Particulate 100% VOC/ 0% Particulate 100% VOC/parti- 0% Culate 100% VOC/ particulate 51%	VOC/ particulate 0% 10.1 VOC/ particulate 0% 100% VOC/parti- culate 0% 1.2 VOC/ particulate 100% 0.4 particulate 51% 11.0		

Process	Rate,	if	applicable:	(See Section	٧,	Item 1)	N/A

1	Total Process	Input F	Rate (1	ba/hr)ı			,	
					· · · · · · · · · · · · · · · · · · ·			

2. Product Weight (lbs/hr):	
-----------------------------	--

Airborne Contaminants Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary) See attachment #1 parts A-G for calculations

Name of Contaminant	Emission ¹	Allowed ² Emission Rate per	Allowable ³ Emission	Potential ⁴ Emission	Relate to Flow
	Maximum Actual lbs/hr T/yr	Rule 17-2	" lbs/hr	lbs/yr T/yr	Diagram
VOC	11.9 24.75			49.500 24.7	5
particulate	0.47 0.98			39,000 19.5	
	7		· · · · · · · · · · · · · · · · · · ·		
			THE PARTY OF THE P		

See Section V, Item 2.

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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)

³Calculated from operating rate and applicable standard.

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

D. Control Devices: (Sec	Section V,	Item 4)
--------------------------	------------	---------

Name and Type (Nodel & Serial No.)	Contaminant	Efficiency	Range of Particlea Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Binks paint arrestor type	particulate	95%	N/A	manufacturer
Filters model #29-893		•	•	specs.
Filter Bank dimensions				
10 ft x 26.7 ft or				
267 sq ft total				·
. (

E. Fuels N/A

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

*Units: Natural GasMMCF/hr; Fuel Oilsgallons/hr; Coal, wood, ref	use, otherlbs/hr.
Fuel Analysis:	
Percent Sulfur: Percent Ash:	
Density:	gens
Heat Capacity:BTU/16	BTU/ga
Other Fuel Contaminants (which may cause air pollution):	<u> </u>
جام بالمان الأنام ل <u>مقدم بالمان المحافية بالمان الأنباب الشيسية بياسا بطالح</u>	
F. If applicable, indicate the percent of fuel used for space heati	ng.
Annual Average	<u> </u>
6. Indicate liquid or solid wastes generated and method of disposal	
entroperation of the second of	

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	, 1	8 020			hient
ss Flow Rate:		·			
iter Vapor Conter	nt: <u>ambient</u>	!	Yelocity:	4/	<u>.8</u>
n at 编 water	static press	ure	see attachment	l part I	, · . · . · . · . · . · . · . · . · . ·
1-1-1	JEC1	ION IVI INCIN	ERATOR INFORMAT	N/A ;	
	ics) (Rubbish)		page) (Patholog	- (Liq.& Gas	Type VI (Solid By-prod.)
		-		 	
Actual lb/hr nciner- ated					
Uncon- trolled			- · · · · · · · · · · · · · · · · · · ·		. * * * * * * * * * * * * * * * * * * *
lbs/hr)					
proximate Number			:		hr)wks/yr
proximate Number	of Hours of	Operation per o	day,	/wk;	
proximate Number	of Hours of	Operation per o	:	/wk;	
proximate Number	of Hours of	Operation per o	day	/wk:	wks/yr.
proximate Number	of Hours of	Operation per o	day	/wk:	wks/yr
proximate Number nufscturer	of Hours of	Operation per o	day,	/wk:	wks/yr
proximate Number nufacturer	Volume	Operation per o	day,	/wk:	wks/yr
proximate Number nufscturer ts Constructed _	Volume (ft)	Heat Release (BTU/hr)-	day,	/wk:	Temperature (°f)
proximate Number nufacturer ts Constructed rimary Chamber scondary Chamber	Volume (ft)	Heat Release	fuel Type	/wk:	Temperature (°f)
proximate Number nufscturer ts Constructed rimary Chamber scondary Chamber ack Height:	Volume (ft) ft.	Heat Release (BTU/hr) Stack Diamter: ACFM	fuel No. Fuel Type DSCFM* ubmit the emiss	BTU/hr	Temperature (°f) emp
imary Chamber condary Chamber ck Height: Flow Rate:	Volume (ft)3 ft. g per day design gas corrected control device	Heat Release (BTU/hr) Stack Disater: ACFM Ign capacity, sed to 50% exces	DSCFM* ubmit the emiss s air. [] Wet Scrub	Stack To Velocity:ions rate in the property in the prop	Temperature (°f) emp.

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Ultimate d	isposel :	of	any	eff1	uen t	other	then	that	emitte	d from	the e	teck	(ac rubbe)	r water,
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			•											
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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 (l-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 air-borne 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 il" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

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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
;	
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
,	en estado en la composição de la composição de la composição de la composição de la composição de la composição La composição de la compo
•	
	the second of th
B.	Has EPA declared the best available control technology for this class of sources (If yes, attach copy)
	[] Yes [] No
-	-Contaminant Rate or Concentration
	<u>and the second of the second </u>
-	
C	What emission levels do you propose as best available control technology?
	Contaminant Rate or Concentration
	okus oktika oktobu overku se over se se se kriterija sa stanje ne od se over 1905. Do se over 1904. Postava se over 1904 til se over <u>se over ne transporter ne se over se over se over transporter ne se over 19</u> 05.
	<u>and services and the services of the services and the services are services and the services are services. I</u>
	and the second of the second o
وأسار	Describe the existing control and treatment (technology (if any). The property of a second of the existing control and treatment (technology (if any).
	1. Control Device/System: And Andrews 2. Operating Principles:
*	3 Efficiency: *
*Exp	olain method of determining
DER Effe	Form 17-1.202(1) Page 8 of 12

-5. Useful Life: 6. Operating Costs: 7. 8. Maintenance Cost: Energy: 9. Emissions: Contaminant Rate or Concentration 10. Stack Parameters .m. Height: ft. . Flow Rate: ACFH d. Temperatures oF. e. Velocity: E. "Describe the control and trestment technology available (As many types as applicable, use additional pages if necessary). l. Control Device: Operating Principles: Efficiency: 1 d. Capital Cost: Operating Coat: Useful Life: Energy: 2 h. Maintenance Cost: 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: Operating Principles: a. Control Device: e. Efficiency: 1 d. Capital Cost: Se. Useful Lifa: f. Operating Cost: √g. Energy:2 Maintenance Cost: i. Availability of construction asterials and process chemicals: Explain method of determining efficiency. $^{\mathbf{Z}}$ Energy to be reported in units of electrical power – KWH design rate.

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Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: 3. Control Device: **Operating Principles:** ъ. Efficiency: 1 Gapital Cost: ø. Useful Life: **Operating Cost:** f. Energy: 2 Maintenance Cost: h. Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: Operating Principles: Control Device: i di na anaka Efficiency:1 Capital Costs: Useful Life: Operating Cost: Energy: 2 Maintenance Cost: g. Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: Describe the control technology selected: 2. Efficiency: 1 Control Device: Capital Cost: Useful Life: Energy: 2 5. Operating Cost: 7. Maintenance Cost: Manufacturer: Other locations where employed on similar processes: a. (1) Company: មានជាត់ម្ដី ស្ថិត កែកម្មវិធី (2) Mailing Address: (3) Lity: ¹Explain method of determining efficiency. ²Energy to be reported in units of electrical power - KWH design rate.

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				. Sagar	
(5)	Environmental Managers	area. I			
	Telephone No.:				
(7)	Emissions: 1				
	Conteminant		· .	Rate or Concent:	ration
	<u> </u>	· · <u>.</u>	<u> </u>	, ,,,,	
			·		
·					
(8)	Process Rate: 1				
b. (l) Company:	· .			
(2)	Mailing Address:				
(3)	City:		(4) State:		
(5)	Environmental Manager:				
(6)	Telephone No.:	·			
(7)	Emissions: 1				2°4
	Contaminant	•		Rate or Concentr	stion
	<u> </u>				
• :	······································				3.
(8)	Process Rate: 1				
10.	Reason for selection and	description	of systems:		
	t must provide this inf		available.	Should this in	formation not
available	e, applicant must state	the reason(s)) why.		
	SECTION VII -	PREVENTION OF	SIGNIFICANT	DETERIORATION	
A. Compa	ny Monitored Data	19.00 E. 19.00	A A STATE OF THE S	i a eg ar i gara	
1	no. Bites	TSP	(_)_		_ Wind spd/dir
Perio	d of Monitoring	/	/ to		_
		month de	y year	month day ye	ar
Other	data recorded				
Attacl	all data or statistics	l summaries t	o this appli	cation.	·
*Specify !	oubbler (8) or continuou	ıs (C).			
	,				
	November 30, 1982	Page 1	1 of 12		

2. Instrumentation, Field and Labora	tory
a. Was instrumentation EPA reference	d or its equivalent? [] Yes [] No
b. Was instrumentation calibrated in	accordance with Department procedures?
[] Yes [] No [] Unknown	
Meteorological Data Used for Air Qual:	itu Madalina
1. Year(s) of data from month	day year month day year
2. Surface data obtained from (locati	Lan)
3. "Upper air (mixing height) data obt	
4. Stability wind rose (STAR) data of	Stained From (10cation)
Computer Models Used	
1.	Modified? If yes, attach description.
ż	Modified? If yes, attach description.
3.	Modified? If yes, attach description.
4	Modified? If yes, attach description.
ciple output tables. Applicants Maximum Allowable Emission Pollutant Emission	
TSP	er en en en en en en en en en en en en en
50 ²	grams/sec
Emission Data Used in Modeling	
Attach list of emission sources. Emis point source (on NEDS point number), l and normal operating time.	sion data required is eource name, description of UTM coordinates, stack data, allowable emissions,
ttach all other information supportiv	e to the PSD review.
ele technologies (i.e., jobs, payrolessessment of the environmental impact	
ittach scientific, engineering, and t	technical material, reports, publications, jour- ormation describing the theory and application of
	en de la composition
	A ARREST AND A PROMOTE A SECURE A SERVICE AND A SECURE A

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E.

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Attachment #1

A. Quantities of Paints and Thinners Used:

Table 1 - Quantities and Varieties of Paints Used*

Type of Paint	Approx. Daily Usage	Percentage Thinner
2-part polyurethane 2-part acrylic enamel 2-part epoxy primer other primers	35 gal* 18 gal* 2.2 gal* 0.8 gal*	50% (thinned for application) 50% (thinned for application) 20% (thinned for application) 20% (thinned for application)

^{*}Including volume of thinners added

Table 2 - Volumes of Thinners Used

Type of Paint	Daily Usage	Yearly Usage
2-part polyurethane 2-part acrylic enamel 2-part epoxy primer other primers	17.5 gal 9.0 gal 0.44 gal 0.16	4550 gal* 2340 gal* 114 gal* 41.6 gal* (includes only solvents added as thinners)

^{*}Based on 5 day/week, 52 weeks/year

B. Calculation of Density (lbs/gal) for a Typical Manufactures Thinner Formulation Used with Two Part Coating Systems:

Calculations for the density of the thinning solvents used for the two part coating systems is based on the composition of Ditzler DTR 60Z reducing solvent which is typical of the solvent mixtures used.

Petroleum Distillates	35%	(Approx. 6.5 lbs/gal, based on mineral spirits)
Toluol (toluene)	25%	(7.26 lbs/gal)
Acetone	15%	(6.59 lbs/gal)
Ethyl Acetate	10%	(7.51 lbs/gal)
Aromatic Hydrocarbon	15%	(Approx. 7.2 lbs/gal, based on
•		xylene)

Contributions of Solvents to Mixture Density:

Petroleum distillates	(0.35) $(6.5 lbs/gal) = 2.28$
Toluol (toluene)	(0.25) $(7.26 lbs/gal) = 1.82$
Acetone	(0.15) (6.59 lbs/gal) = 0.99
Ethyl Acetate	(0.10) (7.51 lbs/gal) = 0.75
Aromatic Hydrocarbon	(0.15) $(7.2 lbs/gal) = 1.1$

Mixture density= 6.94 lbs/gal

^{*}AP-42 supplement 12, April 1981 states, "two part catalyzed coatings to be dried, powder coatings, hot melts, and radiation cured coatings contain essentially no volatile organic compounds although some monomers and other lower molecular weight organics may volatilize." Therefore, the total VOC emission from these two part systems comes from the solvent used to thin them prior to spraying.

Calculation of Density September 15, 1983 Page Two

C. Solvent Emissions from the Use of Two Part Coating Systems:

Solvent emissions from the two part coating systems are limited to the amount of thinning solvents used to achieve high quality finishes (See Table #1)

Table 3 - Total Emissions from Two Part Coating Systems

Type of Paint	Volumes of Thinners Used	Yearly VOC Emissions
2-part polyurethane	4550 gal/yr.	15.8 T/yr.
2-part acrylic enamel	2340 gal/yr.	8.1 T/yr.
2-part epoxy primer	114 gal/yr.	0.4 T/yr.
other primers	41.6 gal/yr.	0.14 T/yr.

Sample calculation for 2-part polyurethane

4550 gallon thinners used per year for 2-part polyurethane system, density of thinner is approx. 6.94 lbs/gal:

 $[(4,550 \text{ gal}) (6.94 \text{ lbs/gal})] \div 2,000 \text{ lbs/ton} = 15.8 \text{ T/yr}.$

D. Solvent Emissions from the One Part Primers (Other Primers)

The solvent emissions from the one-part "other primers" is composed of two components - the solvents already present in the paint formulation and the solvents added to thin the primer prior to application.

VOC emissions from solvents already present: approximate yearly usage volume = 208 gallons thinned with 20% thinner or 166.4 gallons unthinned.

AP-42 supplement 12, table 4.2.2.1-2 states that surfacer primer are typically 49% solids by volume which equates to 51% solvents by volume.

(166.4 gal unthinned primer) (0.51) = 84.9 gal solvents the solvent used in these one part primers is typically toluene whose density is 7.26 lbs/gallon, therefore: (84.9 gal/yr.) (7.26 lbs/gal) = 616.4 lbs/yr or 0.31 tons/yr from the unthinned portion of the primer.

The thinner used amounts to 208 gal/yr. total - 166.4 gal/yr. unthinned primer or 41.6 gals, all of which ends up as VOC emissions: (41.6 gal/yr) (6.94 lbs/gal*) = 288 lbs/yr. or 0.14 T/yr.

*See Part B of this attachment
Tatal calculate spice from a part primary (0.31 T/yr. from primary)

Total solvent emissions from one part primers: (0.31 T/yr. from primer) itself) + (0.14 T/yr. from thinning solvents) = 0.45 T/yr.

Total Yearly VOC Emissions September 13, 1983 Page Three

E. Total Yearly VOC Emissions:

Source of Emissions	Amount
<pre>2-part polyurethane system* 2-part acrylic enamel*</pre>	15.8 T/yr. 8.1 T/yr.
2-part epoxy primer*	0.4 T/yr.
other primers*	0.45 T/yr.
*Includes Thinners Total:	24.75 T/yr.

F. Particulate Emissions:

Estimates for overspray percents obtained from AP-40, second edition, page 861:

Method of Spraying	• • •	% Over S	pray
	Flat Surface	Table Leg	Bird Cage
Air atomization	50%	85%	90%

Binks manufacturing quotes a 95% efficiency rating for its paint arrestor type filters (model 29-893) when used with enamels, primers and two part systems.

The items to be coated in this booth can be broken down as follows:

20%	wooden furniture	(50% flat-50% table leg surfaces)
55%	automotive type	(100% flat type surfaces)
15%	flat surfaces	(100% flat type surfaces)
10%	posts and frames	(99% table leg-1% bird cage type
		surfaces)

Table 4 - Composite Overspray Rates

Type Surface	Composite Overspray Percentage
Wooden furniture	67.5%
Automotive type	50%
Flat surfaces	50%
posts and frames	85.1%

Unthinned 2-part coating systems can be viewed as being essentially all particulate in content. (AP-42, supplement 12, section 4.2.2-1)

Particulate Emissions September 13, 1983 Page Four

Table 5 - Volumes of Unthinned 2-part Coating Systems

Paint Type	Volume of U	Inthinned Material	Weight
2-part polyurethane	4550 gal	(9.2 lbs/gal)*	20.9 tons
2-part acrylic enamel	2340 gal	(8.9 lbs/gal)*	10.4 tons
2-part epoxy primer	458 gal	(10.5 lbs/gal)*	2.4 tons

^{*}See AP-42 Table 4.2.2.1-2

Particulate emissions from two part coating systems: The calculations proceed as follows:

(Tons of coating system) x (Percentage of items coated) x (Overspray percentage) = tons of particulate in overspray

Sample calculation for 2-part polyurethane system:

(20.9 tons) (20% wooden furniture) (6.75% overspray) = 2.82 tons (20.9 tons) (70% flat type surfaces) (50% overspray) = 7.32 tons (20.9 tons) (10% postsand frames) (85.1% overspray) = 1.78 tons Total particulate overspray from 2-part polyurethane = 11.9 tons/yr.

Efficiency of paint arrestor filter is 95%, therefore, 5% of total overspray is emitted from booth (11.9 tons/yr.) (.05) = 0.60 tons/yr. emitted.

Table 6 - Total Particulate Emissions From 2-part Coating Systems

Paint Type	Ton/Yr. Particulates Emitted	Total Particulate Overspray
2-part polyurethane 2-part acrylic enamel 2-part epoxy primer	0.60 tons/yr. 0.30 tons/yr. 0.07 tons/yr.	<pre>11.9 tons/yr. 6.0 tons/yr. 1.4 tons/yr.</pre>
Total emitted from 2-part systems	0.97 tons/yr.	B

Particulate emissions from "other primers"

AP-42, Table 4.2.2.1-2 states that typical surfacer primers are 49% solids and have a density of 9.4 lbs/gal yearly useage of "other primers" is approximately 166.4 gal/yr.

(166.4 gal/yr) (9.4 lbs/gal) (0.49 solids) = 766.5 lbs/yr. particulate sprayed = 0.38 T/yr.

The rest of the calculation proceeds as the above to yield total particulate emissions from tother primers" of 0.01 T/yr.

Particulate Emissions September 13, 1983 Page Five

G. Yearly Total Particulate Emissions

Total	from	2-part systems		0.97	tons/yr.
Total	from	other primers	٠.	0.01	tons/yr.
		Total:		0.98	tons/yr.

Potential emission without filters Total from 2-part systems = 19.3 tons/yr. Total from "other primers" = 0.2 tons/yr. Total potential emissions = 19.5 tons/yr.

H. Contaminants and Utilization Rates:

Table 7 - Utilization Rates

Type of Paints	Approx. Daily Usage (Unthinned Paints)	<u>Density</u>	Utilization Rates
2-part polyurethane 2-part acrylic 2-part epoxy primer other primers thinners	17.5 gal	9.2 lbs/gal*	10.1 lbs/hr.
	9 gal	8.9 lbs/gal*	5.01 lbs/hr.
	1.8 gal	10.5 lbs/gal*	1.2 lbs/hr.
	0.6 gal	9.4 lbs/gal*	0.4 lbs/gal
	27.1 gal	6.94 lbs/gal**	11.8 lbs/gal

Table 8 - Weight Percent of Contaminants

	Weig	ht Percents	Source of
Type of Paint	<u>voc</u>	Particulate	Figure
2-part polyurethane	0%	100%	AP-42, 4.2.2.1
2-part acrylic enamel	0%	100%	AP-42, 4.2.2.1
2-part epoxy primer	0%	100%	AP-42, 4.2.2.1
other primers	51%	49%	AP-42, 4.2.2.1-2
thinners	100%	0%	

I. Calculation of Gas Flow Rates and Velocities

Exhaust Fans:

Booth is equipped with two exhause fans from Binks Manufacturing, model 30-4313 rated at 18029 SCFM at場" WC static pressure (See Attachment #2)

Total air flow from both fans 36058 SCFM at 놓" WC static pressure

Stack diameter 2.83 ft.

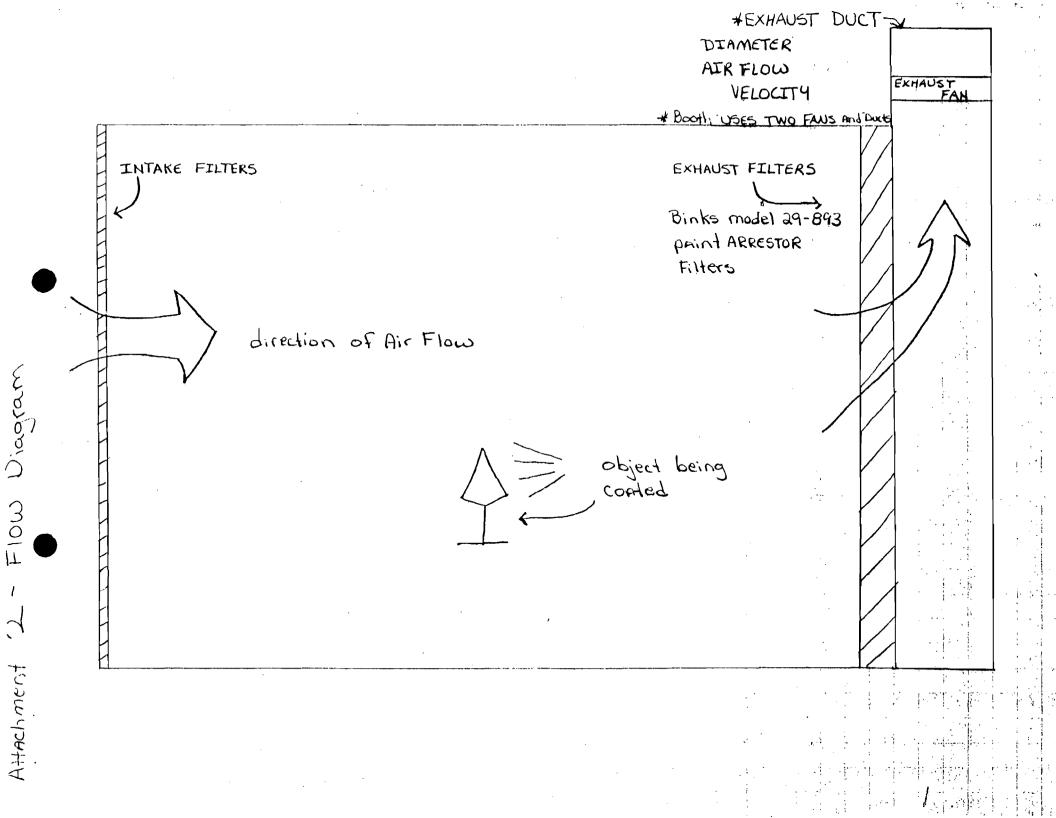
radius 1.415 ft.

Cross sectional area of stack = TTr^2 = (3.14) $(1.415)^2$ = 6.29 sq. ft. Air velocity from stack = (18029 SCFM ÷ 6.29 sq. ft.)

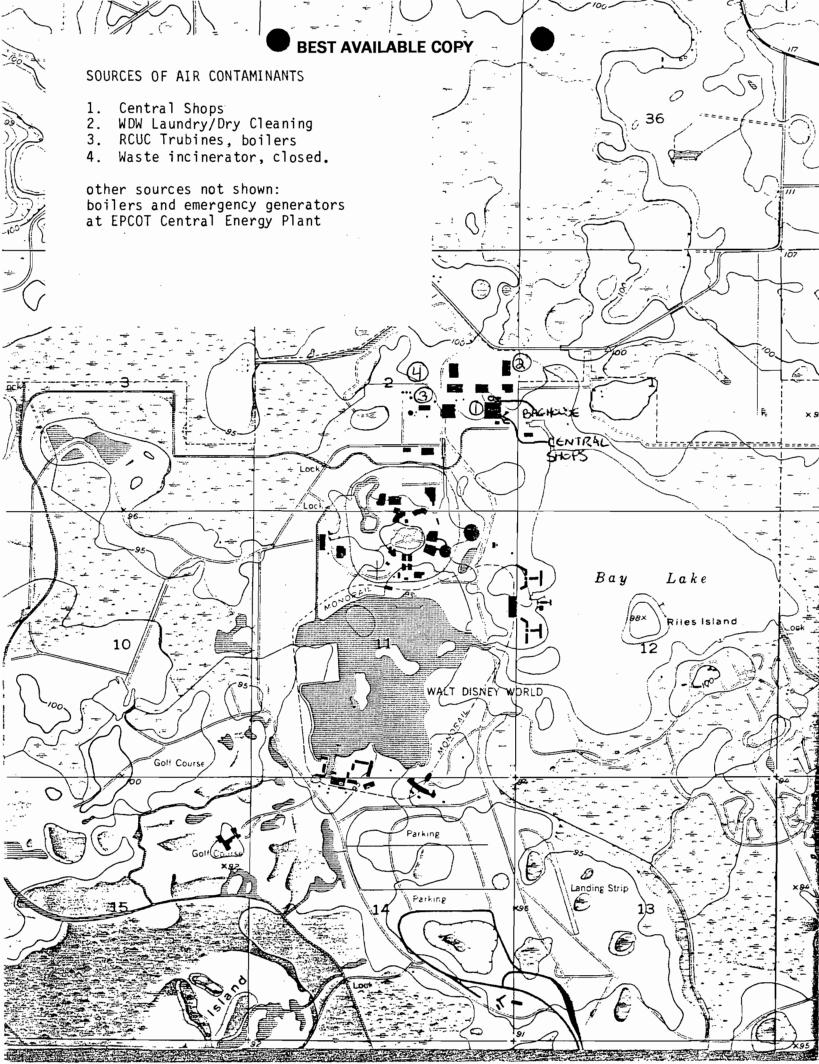
= 2866 FPM

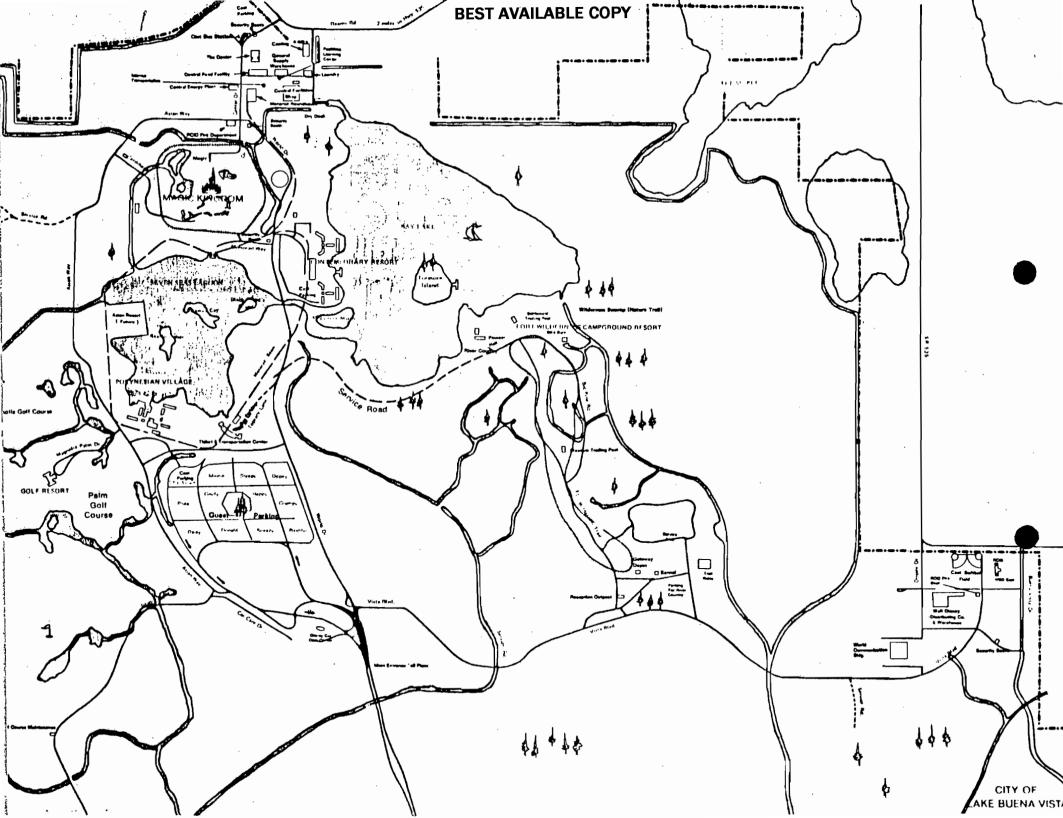
= 47.8 FPS through each of two vents

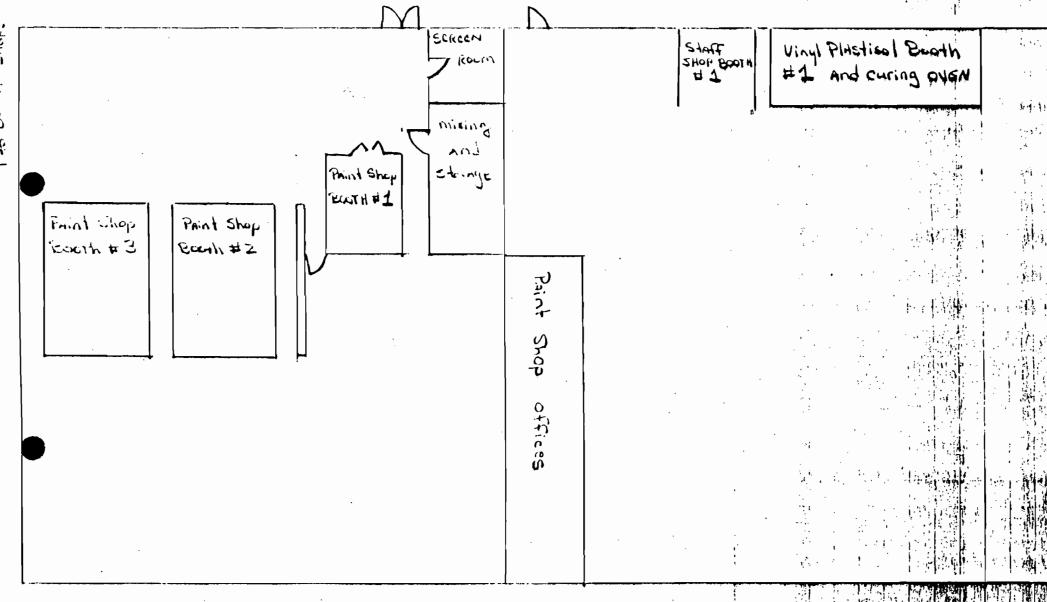
Attachment #2



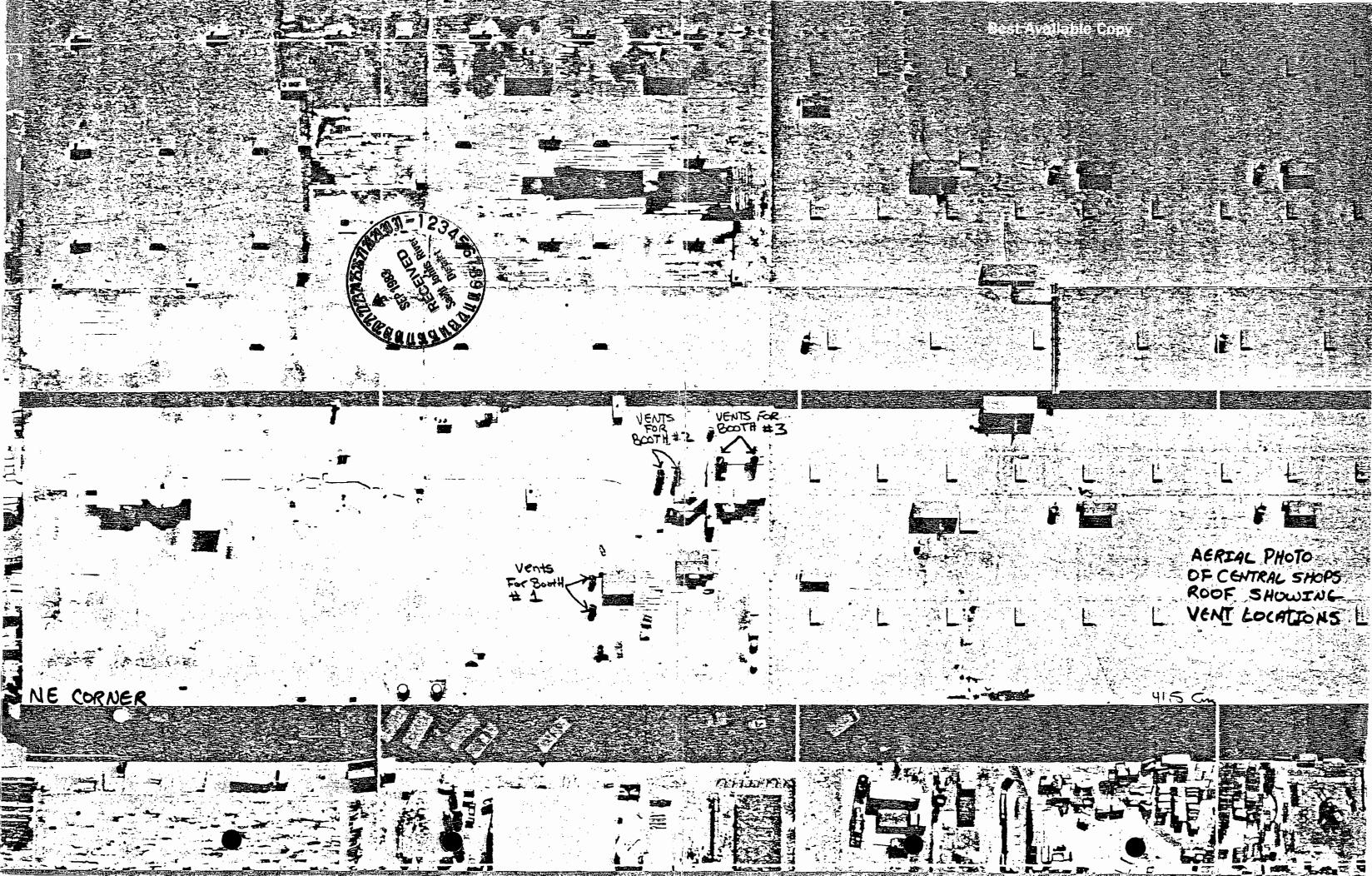
Attachment #3







SKETCH OF FACILITY LAYOUT, not to SCALE



BEST AVAILABLE COPY STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTA BOB GRAHAM GOVERNOR SEP 2 2/1983 VICTORIA J. TSCHINKEL SECRETARY ALEX SENKEVICH DISTRICT MANAGER SAINT JOHNS CUCKE RIVER DISTRICT MAPPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES Spray Paint Booth [] New¹ [] Existing 1 APPLICATION TYPE: [X] Construction [] Operation [] Modification COMPANY NAME: WALT DISNEY WORLD Co., Inc. **COUNTY:** Orange Identify the specific emission point source(s) addressed in this application (i.e. Lime NSA Paint Shop paint Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Booth #2 SOURCE LOCATION: Street Facilities Way City Bay Street UTM: East 443516 North 3144309 Latitude 28 ° 25 ' 32 "N Longitude 81 ° 34 APPLICANT NAME AND TITLE: Edward R. Crowell, Vice President Facilities Division APPLICANT ADDRESS: P. O. Box 40 Lake Buena Vista, FL 32830 SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

APPLICANT

ST. JOHNS RIVER

3319 MAGUIRE BOULEVARD

OCT 6

1983

SUITE 232 ORLANDO, FLORIDA 32803

SOURCE TYPE:

DISTRICT

I am the undersigned owner or authorized representative* of WALT DISNEY WORLD Co.

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. 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. 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 permitte establishment.

Signed:

*Attach letter of authorization

Edward B. Crowell, N.P. Facilities Division Name and Title (Please Type)

Telephone No. (305) 824-7700 Date:

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 which 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)

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	the pollution control facilities, when properly maintained and operated, will discha an effluent that complies with all applicable statutes of the State of Florida and t rules and regulations of the department. It is also agreed that the undersigned wil furnish, if authorized by the owner, the applicant a set of instructions for the pro- maintenance and operation of the pollution control facilities and, if applicable,
	Signed Signed
	Signed Signed Million Mane (Please Type)
	Name (Please Type)
	Reedy Creek Utilities Co., Inc.
	Company Name (Please Type)
	P.O. Box 40 Lake Buena Vista, FL 32830
	Mailing Address (Please Type)
) I	ride Registration No.25555 Date: 9/21/83 Telephone No. (305) 824-4950
	SECTION II: GENERAL PROJECT INFORMATION
	SECTION II; GENERAL PROJECT INFORMATION
	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.
	Spray paint booth for coating a variety of objects including vehicles, wooden for
	niture, trash cans, ride components, posts and frames using 2 part polyurethane,
	•
	part acrylic, epoxy primers and other primer coating systems
	Schedule of project covered in this application (Construction Permit Application Onl
	Start of Construction existing booth Completion of Construction N/A
	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.)
	/ Y / 🚧
	Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.
	point, including permit issuance and expiration dates. NONE
	point, including permit issuance and expiration dates. NONE Permit applications called in by Chuck Collins of Florida DER to be submitted

Requested permitted equipment operating time: $hrs/day = \frac{16}{3}$; $days/wk = \frac{5}{3}$; wks/yr_52
if power plant, hrs/yr; if seasonal, describe:	
If this is a new acurce or major modification, answer the following quest (Yes or No)	ions.
1. Is this source in a non-attainment area for a particular pollutent?	ves
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. VOC	
2. Does best available control technology (BACT) apply to this source? If yes, see Section VI.	no
 Does the State "Prevention of Significant Deterioristion" (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
Do "Ressonably 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 "Yea". Attach	any justif

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

No RACT guidelines for this type of surface coating operation.

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

A. Raw Meterials and Chemicals Used in your Procesa, if applicable:

See attachment #1, Part H Contaminants Utilization Description % WE Rate - lbs/hr Relate to Flow Diagram .vnc 2-part polyurethane 0%/100% 20.2 Paint application Particulate 2-part acrylic enamel VOC/Partic 10.0 Paint application 0%/100% 2.4 2-part epoxy primer VOC/Partic. 0%/100% Paint application 8:0 Paint application conventional prime VOC/Partic 0%/100% systems Thinner for paint applic

Thinners VOC/Partic. 0%/100%

B .	Process	Rate.	if	applicable:	(See	Section	٧.	Itam	1)	N7A
.	1,100,000	uare,	11	abbircapies	(26 è	SACETOR	٠,	1	1 1	N/A

1.~	Total	Process	Input	Rate	(lbe/hr):_			. `	
	•	,	•		_	 - ·	 		· · · · · · · · · · · · · · · · · · ·
				:					

2.	Product	Weight	(lbs/hr):_

C. Airborne Contaminants Emitted: (Information in this table must be submitted for each smission point, use additional sheets as necessary) See attachment #1 Parts A-G for calculations

Name of	Emission Allowed Emission Rate per		Allowable ³ Emission	Potential ⁴ - Emission	Relate to Flow	
Contaminant	Maximum Actual lbs/hr T/yr	Rule 17-2	1bs/hr	lbs/yr T/yr	Diagram	
VOC	23.8 49.5			99,000 49.5	. :	
Particulate	0.93 1.94	: 44 · · ·	* * * *	79,000 39.5	1.7	
en englisher	THE SECTION STATES	1				

¹See Section V, Item 2.

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

³Calculated from operating rate and applicable standard.

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

D.	Control	Devices:	(See	Section	٧,	Item	4))
----	---------	----------	------	---------	----	------	----	---

Name and Type (Model & Serial No.)	Conteminant	Efficiency	Range of Particlea Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Binks Paint arres.typ	e Particulate	95%	N/A	Manufac Spec
Filters model #29-893		. 2 * •	·	
Filter Bank dimension		. :	•	
2 filter banks				
6.7 ft. x 13.3 ft. fo	^			
a total of 178 sq. f	t .			

Г	÷ ·	Consum	ption*			
Ŀ	Type (Be Specific)	evg/hr	max./hr	Maximum Heat Input (MMBTU/hr)		
Γ						
		-				

TUNITS: Watural GasMMCr/nr;	; ruel ollsdello	ons/nr; cosi, w	ood, reiuse, ot	ner108/nr.
Fuel Analysis:				
Percent Sulfur:		Percent Ash:_		
Density:	lbs/gsl	Typical Perce	nt Nitrogen:	
Heat Capacity:		· <u></u>	- e I .	BTU/gal
Other Fuel Contaminants (which	ch may cause air p	oollution):		<u> </u>
the state of the s	As the second			:
F. If applicable, indicate t	he percent of fue	l used for space	ce heating.	
Annual Average		iximum	· /	
S. Indicate liquid or solid				
The state of the s				
			· .	

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se Flow R	ate:	ACFH_2	4,250	_DSCFM G	e Exit Temp	eratura: an	nbient•
'At'a'' wate	r static	<u>ambient</u> pressure		See Atta	chment 1, Pa	art I.	
	:	SECT	ION IA:	INCIMERATO	R INFORMATI	DN N/A	
Type of Waste	Type 0 (Plastice	Type I) (Rubbieh)	Type II (Refuee)	Type III (Garbage)	Type IV (Patholog- ical)	Type V (Liq.& Gas By-prod.)	Type VI (Solid By-prod.
Actual lb/hr nciner- ated				, <u>-</u>	. · · · · · · · · · · · · · · · · · · ·	·	
Uncon- trolled lbs/hr)		-4			. %	· · · · ·	
							hr)
proximate	Number o	ated (1bs/h	Operation	per dey _	day/		
proximate nufacture te Constr	Number o	ated (1bs/h	Operation		day/		
proximate nufacture te Constr	Number o	ated (1bs/h	Operation	per day _	day/	wk	
proximate nufacture te Constr	Number o	ated (1bs/h	Operation	per day _	day/	wk	wks/yr
proximate nufacture te Constr	Number o	ated (1bs/h	Operation	per day _	day/	wk	wks/yr
proximate nufacture te Constr rimary Ch econdary ack Heigh	Number o	ated (1bs/h	Heat Re	Model	day/	wk	Temperature (*f)
proximate nufacture te Constr rimary Ch econdary ack Heigh	Number o	Volume (ft)	Heat Re	Model	No. Fuel	BTU/hr-	Temperature (*f)
proximate nufacture te Constr rimary Ch econdary ack Heigh Flow Re	Number or consider of the constant of the cons	Volume (ft)3	Heat Rome (BTU)	Model Model Please /hr) ster:	DSCFM* No.	BTU/hr- Stack T	Temperature (*f)
rimary Ch school Raigh s Flow Raigh f 50 or m rd cubic pe of pol	Number or constitution constitu	Volume (ft)3	Heat Re (BTU) Stack Diam ACFM Ign capacid to 50%	Model Model Please /hr) ster: ty, submitexcess site /clone [DSCFM* No.	BTU/hr- Stack T /elocity:	Temperature (°F) empFP n grains per stan

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Jltin BBh,	ate	disposa:		efflu					the	stack	(scrubber	water
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				-								
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SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

- Total process input rate and product weight -- show derivation [Rule 17-2.1D0(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 ${\sf sp-}$ plicable 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).
- 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.)
- 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).
- 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 perticles are evolved and where finished products are obtained.
- An 8 1/2" x 11" plot plan showing the location of the establishment, and points of airborne emissions, in relation to the aurrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic sap).
- An 8 1/2" x 11" plot plan of facility showing the location of manufacturing processes ≇nd outlets for airborne emissions. Relate all flows to the flow diagram.

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		:	•		
9.	The appropriate application fee in accord made payable to the Department of Environs			15. The chec	k should be
10.	With an application for operation permit, struction indicating that the source wa permit.	a construct			
•	SECTION VI: BEST AVAILA	ARIF CONTROL	TECHNOLOG		
Α.	Are standards of performance for new stat	· · · · · · · · · · · · · · · · · · ·		•	.R. Part 60
¥ Î	applicable to the source?		, , , , , , , , , , , , , , , , , , , ,	,	
	[] Yes [] No				\$1.00° 1,00° 00° 0.
:	Contaminant	••	Rate or 0	Concentration	• • • • • • • • • • • • • • • • • • • •
		<u> </u>	· · · · · · · · · · · · · · · · · · ·		
<u>-</u>					
	<u> </u>	18 - 2 2 2 2 2 3 5 5 5 C	<u> </u>	<u></u> .	
В.	Has EPA declared the best svailable contryes, attach copy)	ol technolo	gy for th	is class of	sources (If
,	[] Yes [] No		: .		
	Conteminant		Rate or E	oncentration	
			<u> </u>		· :
			<u> </u>	<u>-</u>	
				· · · · · · · · · · · · · · · · · · ·	
					• • • •
ε		t available	control i	echnology?	
	Contaminant		Rate or C	oncentration	
	entre and the feet of the control of the control of the control of the control of the control of the control of			<u> </u>	
2,:			. :		56.1
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·	and the second of the second o				
D	Describe the existing control and trestmen	t táchnolony	(if anv)		
. ; .	. On an analysis of the second	\$42.2 E			
(* ; ; ;	1. (Control Device/System: Angles of the Section of				n saturation
حفد		4. Capital	TORES:	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
:	plain method of determining			1.11114	
	Form 17-1.202(1) active November 30, 1982 Page 8	of 12			e ekopyskani. Posta

Useful Life: 6. Operating Costs: Energy: · 8. Maintenance Cost: Emissions: Contaminant Rate or Concentration 10. Stack Parameters ft. b. Diameter: a. Height: ft. c. Flow Rate: ACFM d. Temperature: ٥f. FPS Velocity: Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary). 1. Operating Principlea: Control Device: Efficiency: 1 d. Capital Cost: c. Operating Coat: Useful Life: Energy: 2 h. Maintenance Cost: . 0 Availability of construction materials and process chemicals: ı. Applicability to manufacturing processes: j. Ability to construct with control device, install in available space, and operate within proposed levels: b. Operating Principles: Control Device: c. Efficiency:1 d. 'Capital Cost: Operating Cost: Useful Life: Energy:2 h. Maintenance Cost: i. Availability of construction materials and process chemicals: Explain method of determining efficiency. 2 Energy to be reported in units of electrical power - KWH design rate.

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Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate k. within proposed levels: 3. Control Device: **Operating Principles:** Efficiency: 1 Capital Cost: d. Useful Life: Operating Cost: Energy: 2 Maintenance Cost: Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: Control Device: Operating Principles: Efficiency:1 Capital Costs: Useful Life: Operating Cost: Maintenance Cost: Energy: 2 Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: Describe the control technology selected: 2. Efficiency: 1 Control Device: Useful Life: Capital Cost: Energy: 2 Operating Cost: 7. Maintenance Cost: Manufacturer: 9. Other locations where employed on similar processes: a. (1) Company: (2) Mailing Address: . (3) City: ¹Explain method of determining efficiency. ${f Z}$ Energy to be reported in unita of electrical power - KWH design rate. DER Form 17-1.202(1)

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(5)	Environmental Manager:	
(6)	Telephone No.:	
(7)	Emissions: 1	
	Contaminant	Rate or Concentration
		·
(8)	Process Rate:1	
٠٠ ٠.	(1) Company:	
(2)	Mailing Address:	
(3)	City:	(4) State:
(5)	Environmental Manager:	
(6)	Telephone No.:	
(7)	Emissions: 1	
	Contaminant	Rate or Concentration
	::	
(8)	Process Rate: 1	
10.	Reason for selection and description	n of systems:
Applicar availab	le, applicant must state the reason(
	A second second second second	OF SIGNIFICANT DETERIORATION
A. Compa	any Monitored Data	
1	no. sitesTSP _	() SOZ* Wind spd/dir
Perio	od of Monitoring / month d	ay year month day year
Other	data recorded	
Attac	ch all data or statistical summaries	to this application.
* \$000.	hubbles (8) as costinuous (6)	
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. .

the second section

	a. Was instrumentation EPA referenced or its equivalent? [] Yes [] No
	b. Was instrumentation calibrated in accordance with Department procedures?
	[] Yes [] No [] Unknown
в.	Meteorological Data Used for Air Quality Modeling
	1Year(a) of data from/ / to/ / 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)
Ċ.	Computer Models Used
	1 Modified? If yes, attach description.
	2 Modified? If yes, attach description.
	3 Nodified? 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
	\$0 ² grams/sec
٤.	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.
6.	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.
н.	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.
•	and the control of th
	and the control of th

2. Instrumentation, Field and Laboratory

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Attachment #1

A. Quantities of Paints and Thinners Used:

Table 1 - Quantities and Varieties of Paints Used*

Type of Paint	Approx. Daily Usage	Percentage Thinner
2-part polyurethane 2-part acrylic enamel 2-part epoxy primer other primers	70 gal* 36 gal* 4,4 gal* 1.6 gal*	50% (thinned for application) 50% (thinned for application) 20% (thinned for application) 20% (thinned for application)

^{*}Including volume of thinners added

Table 2 - Volumes of Thinners Used

Type of Paint	Daily Usage	Yearly Usage
2-part polyurethane 2-part acrylic enamel 2-part epoxy primer other primers	35 18 0.88 0.32	9100 gal* 4680 gal* 228 gal* 83.2 gal* (includes only solvents added as thinners)

^{*}Based on 5 day/week, 52 weeks/year

Calculation of Density (lbs/gal) for a Typical Manufactures Thinner Formulation Used with Two Part Coating Systems:

Calculations for the density of the thinning solvents used for the two part coating systems is based on the composition of Ditzler DTR 60Z reducing solvent which is typical of the solvent mixtures used.

Petroleum Distillates	35%	(Approx. 6.5 lbs/gal, based on mineral spirits)
Acetone	25% 15%	(7.26 lbs/gal) (6.59 lbs/gal)
	10% 15%	<pre>(7.51 lbs/gal) (Approx. 7.2 lbs/gal, based on xylene)</pre>

Contributions of Solvents to Mixture Density:

Petroleum distillates Toluol (toluene) Acetone Ethyl Acetate Anomatic Hydrocarbon	(0.35) (6.5 lbs/gal) = 2.28 (0.25) (7.26 lbs/gal) = 1.82 (0.15) (6.59 lbs/gal) = 0.99 (0.10) (7.51 lbs/gal) = 0.75 (0.15) (7.2 lbs/gal) = 1.1
Aromatic Hydrocarbon	(0.15) $(7.2 lbs/gal) = 1.1$

Mixture density= 6.94 lbs/gal

^{*}AP-42 supplement 12, April 1981 states, "two part catalyzed coatings to be dried, powder coatings, hot melts, and radiation cured coatings contain essentially no volatile organic compounds although some monomers and other lower molecular weight organics may volatilize." Therefore, the total VOC emission from these two part systems comes from the solvent used to thin them prior to spraying.

Calculation of Density September 15, 1983 Page Two

C. Solvent Emissions from the Use of Two Part Coating Systems:

Solvent emissions from the two part coating systems are limited to the amount of thinning solvents used to achieve high quality finishes (See Table #1)

Table 3 - Total Emissions from Two Part Coating Systems

Type of Paint	Volumes of Thinners Used	Yearly VOC Emissions		
2-part polyurethane	9100 gal/yr.	31.6 T/yr.		
2-part acrylic enamel	4680 gal/yr.	16.2 T/yr.		
2-part epoxy primer	228 gal/yr.	0.8 T/yr.		
other primers	83.2 gal/yr.	0.28 T/yr.		

Sample calculation for 2-part polyurethane

9100 gallon thinners used per year for 2-part polyurethane system, density of thinner is approx. 6.94 lbs/gal:

[(9100 gal) (6.94 lbs/gal)] \div 2,000 lbs/ton = '31.6T/yr.

D. Solvent Emissions from the One Part Primers (Other Primers)

The solvent emissions from the one-part "other primers" is composed of two components - the solvents already present in the paint formulation and the solvents added to thin the primer prior to application.

VOC emissions from solvents already present: approximate yearly usage volume = 416 gallons thinned with 20% thinner or 332.8 gallons unthinned.

AP-42 supplement 12, table 4.2.2.1-2 states that surfacer primer are typically 49% solids by volume which equates to 51% solvents by volume.

(332.8 gal unthinned primer) (0.51) =169.7 gal solvents the solvent used in these one part primers is typically toluene whose density is 7.26 lbs/gallon, therefore: (0.62 gal/yr.) (7.26 lbs/gal) = 616.4 lbs/yr or 0.31 tons/yr from the unthinned portion of the primer.

The thinner used amounts to 416 gal/yr. total -332.8 gal/yr. unthinned primer or 83.2 gals, all of which ends up as VOC emissions: (83.2 gal/yr) (6.94 lbs/gal*) = 577.4 lbs/yr. or 0.29 T/yr.

*See Part B of this attachment

Total solvent emissions from one part primers: (6.624T/yr. from primer itself) + (0.29 T/yr. from thinning solvents) = 0.91 T/yr.

Total Yearly VOC Emissions September 13, 1983 Page Three

E. Total Yearly VOC Emissions:

Source of Emissions	Amount
<pre>2-part polyurethane system* 2-part acrylic enamel* 2-part epoxy primer*</pre>	31.6 T/yr. 16.2 T/yr. 0.8 T/yr.
other primers*	0.9 T/yr.
*Includes Thinners Total:	49.5 T/yr.

F. Particulate Emissions:

Estimates for overspray percents obtained from AP-40, second edition, page 861:

Method of Spraying		% Over S	pray
	<u>F</u> lat Surface	Table Leg	Bird Cage
Air atomization	50%	85%	90%

Binks manufacturing quotes a 95% efficiency rating for its paint arrestor type filters (model 29-893) when used with enamels, primers and two part systems.

The items to be coated in this booth can be broken down as follows:

20%	wooden furniture	(50% flat-50% table leg surfaces)
55%	automotive type	(100% flat type surfaces)
15%	flat surfaces	(100% flat type surfaces)
10%	posts and frames	(99% table leg-1% bird cage type
		surfaces)

Table 4 - Composite Overspray Rates

Type Surface	Composite Overspray Percent	age
Wooden furniture	67.5%	P
Automotive type	50%	
Flat surfaces	50%	
posts and frames	85.1%	

Unthinned 2-part coating systems can be viewed as being essentially all particulate in content. (AP-42, supplement 12, section 4.2.2-1)

Particulate Emissions September 13, 1983 Page Four

Table 5 - Volumes of Unthinned 2-part Coating Systems

Paint Type	Volume of	Unthinned Material	Weight
2-part polyurethane	9100 gal	(9.2 lbs/gal)*	41.9 tons
2-part acrylic enamel	4680 gal	(8.9 lbs/gal)*	20.8 tons
2-part epoxy primer	916 gal	(10.5 lbs/gal)*	4.8 tons

^{*}See AP-42 Table 4.2.2.1-2

Particulate emissions from two part coating systems: The calculations proceed as follows:

(Tons of coating system) x (Percentage of items coated) x (Overspray percentage) = tons of particulate in overspray

Sample calculation for 2-part polyurethane system:

(41.9 tons) (20% wooden furniture) (6.75% overspray) = 5.66 tons (41.9 tons) (70% flat type surfaces) (50% overspray) = 11.7 tons (41.9 tons) (10% postsand frames) (85.1% overspray) = 13.57tons
Total particulate overspray from 2-part polyurethane = 23.9 tons/yr.

Efficiency of paint arrestor filter is 95%, therefore, 5% of total overspray is emitted from booth (23.9 tons/yr.) (.05) = $\frac{1}{2}$.20 tons/yr. emitted.

Table 6 - Total Particulate Emissions From 2-part Coating Systems

Paint Type	Ton/Yr. Particulates Emitted	Total Particulate
		<u>Overspray</u>
2-part polyurethane	1.20 tons/yr.	23.9 tons/yr.
2-part acrylic enamel	0.60 tons/yr.	12.0 tons/yr.
2-part epoxy primer	0.14 tons/yr.	2.8 tons/yr.
Total emitted from		•
2-part systems	1.94 tons/yr.	9

Particulate emissions from "other primers"

AP-42, Table 4.2.2.1-2 states that typical surfacer primers are 49% solids and have a density of 9.4 lbs/gal yearly useage of "other primers" is approximately 166.4 gal/yr.

(332.8 gal/yr) (9.4 lbs/gal) (0.49 solids) =1532.9 lbs/yr. particulate sprayed = 0.77 T/yr.

The rest of the calculation proceeds as the above to yield total particulate emissions from tother primers of $0.02\,$ T/yr.

Particulate Emissions September 13, 1983 Page Five

G. Yearly Total Particulate Emissions

Total	from	2-part systems	1.94	tons/yr.
Total	from	other primers	0.02	tons/yr.
		Total:	1.96	tons/yr.

Potential emission without filters
Total from 2-part systems = 38.8 tons/yr.
Total from "other primers" = 0.44 tons/yr.
Total potential emissions = 39.2 tons/yr.

H. Contaminants and Utilization Rates:

Table 7 - Utilization Rates

Type of Paints	Approx. Daily Usage (Unthinned Paints)	Density	Utilization Rates
2-part polyurethane 2-part acrylic 2-part epoxy primer other primers thinners	35 gal 18 gal 3.6 gal 1.2 gal 54.2 gal	9.2 lbs/gal* 8.9 lbs/gal* 10.5 lbs/gal* 9.4 lbs/gal* 6.94 lbs/gal**	20.2 lbs/hr. 10.0 lbs/hr. 2.4 lbs/hr. 0.8 lbs/gal 23.6lbs/gal

Table 8 - Weight Percent of Contaminants

•	Weight Percents		Source of	
Type of Paint	VOC	<u>Particulate</u>	Figure	
2-part polyurethane	0%	100%	AP-42, 4.2.2.1	
2-part acrylic enamel	0%	100%	AP-42, 4.2.2.1	
2-part epoxy primer	0%	100%	AP-42, 4.2.2.1	
other primers	51%	49%	AP-42, 4.2.2.1-2	
thinners	100%	0%		

I. Calculation of Gas Flow Rates and Velocities

Exhaust Fans:

Booth is equipped with two exhause fans from Binks Manufacturing, model 30-4418 rated at 24,250 SCFM at WC static pressure (See Attachment #2)

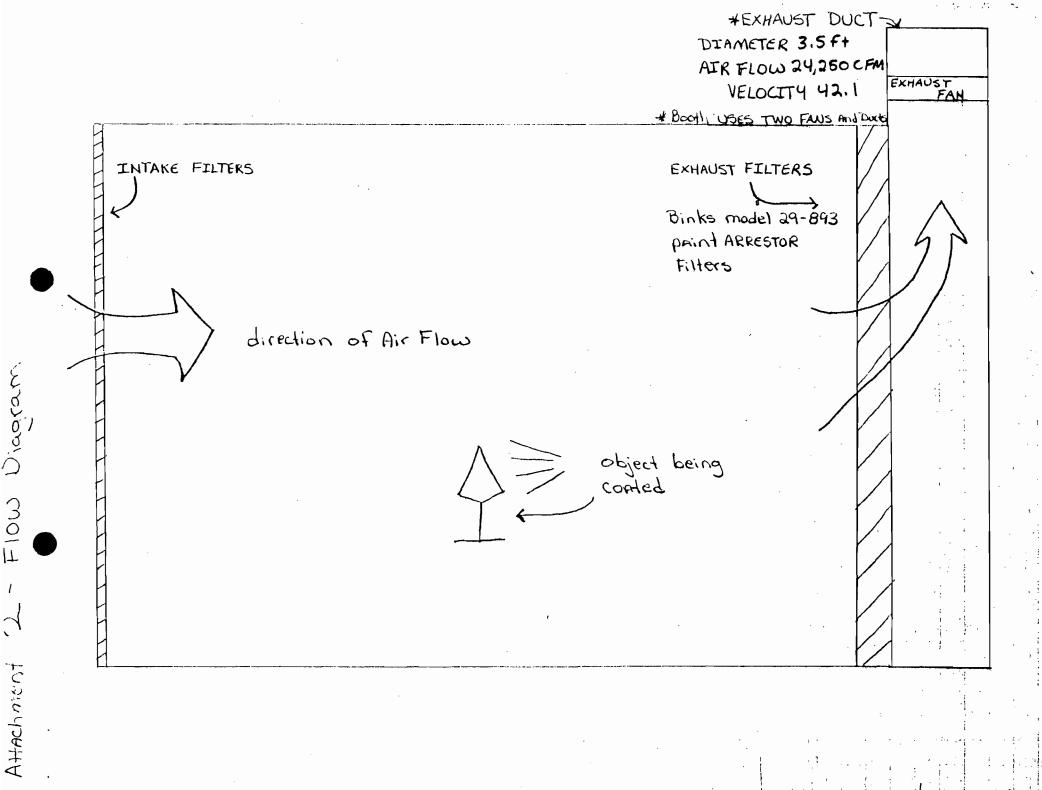
Total air flow from both fans 48500 SCFM at 🖫 WC static pressure

Stack diameter 3.5 ft.
radius 1.75 ft.

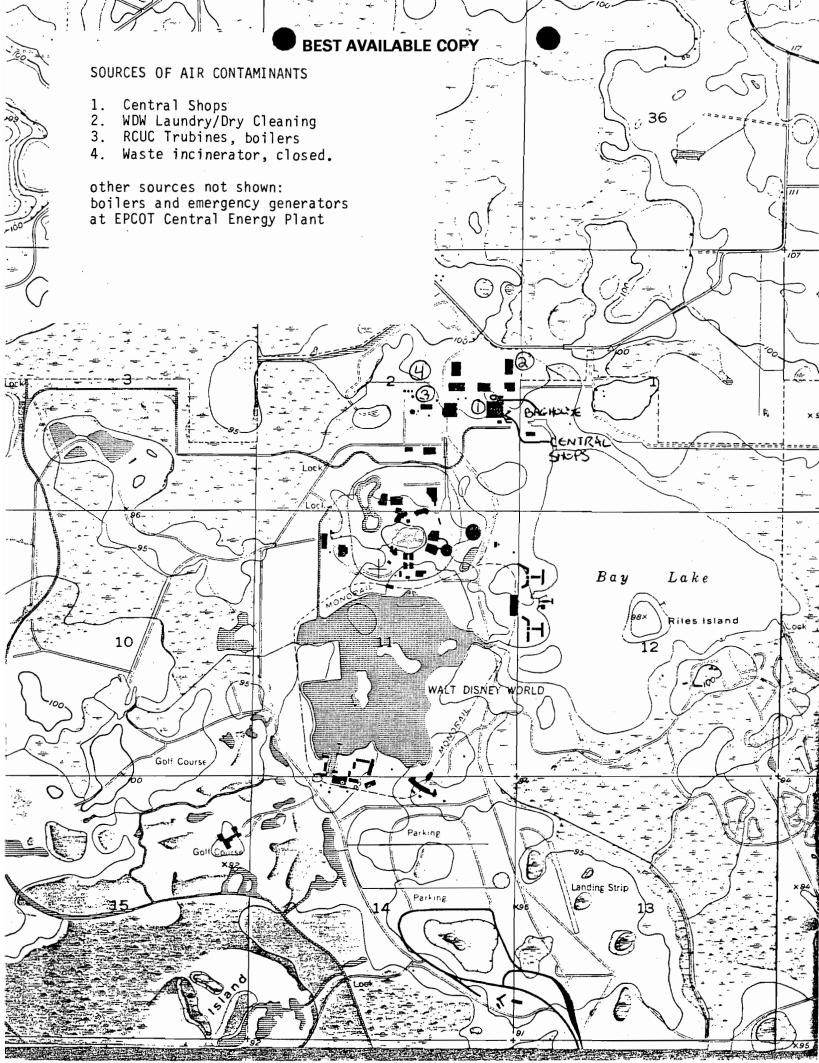
Cross sectional area of stack = TTr² = (3.14) (1.75)² =9.61 sq. ft.

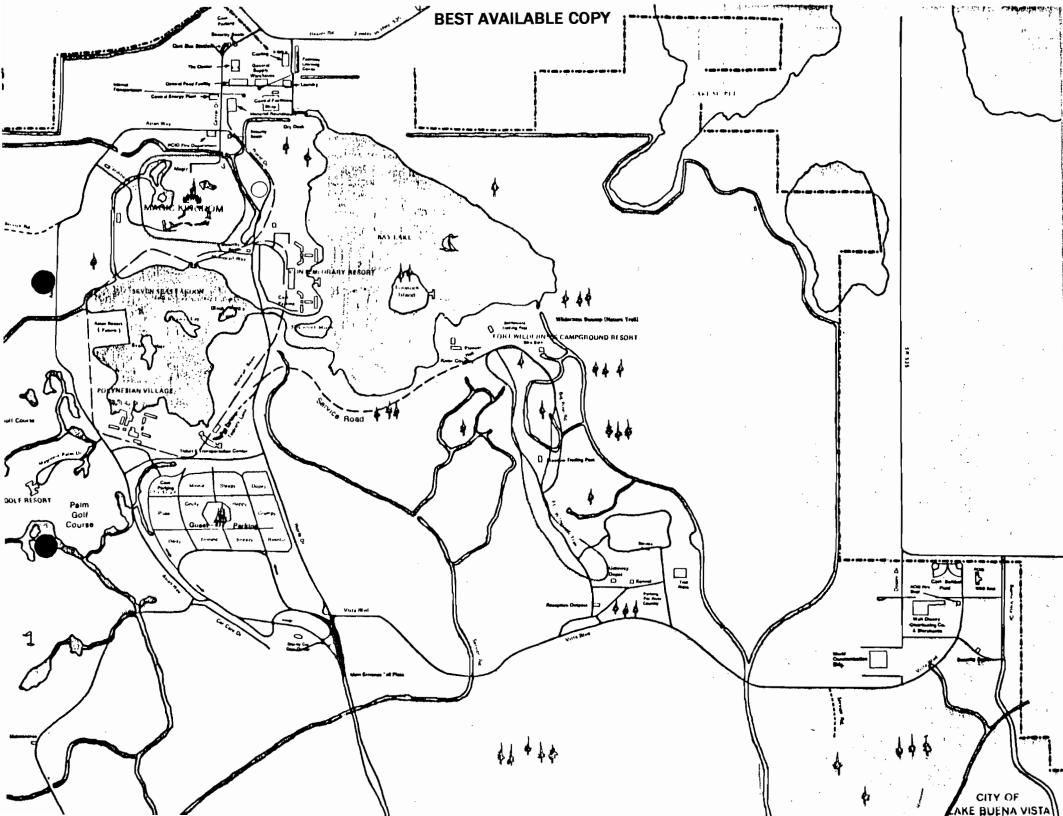
Air velocity from stack = (24250 CFM ÷ 9.61 sq. ft.)
= 2523 FPM
= 442.1 FPS through each of two vents

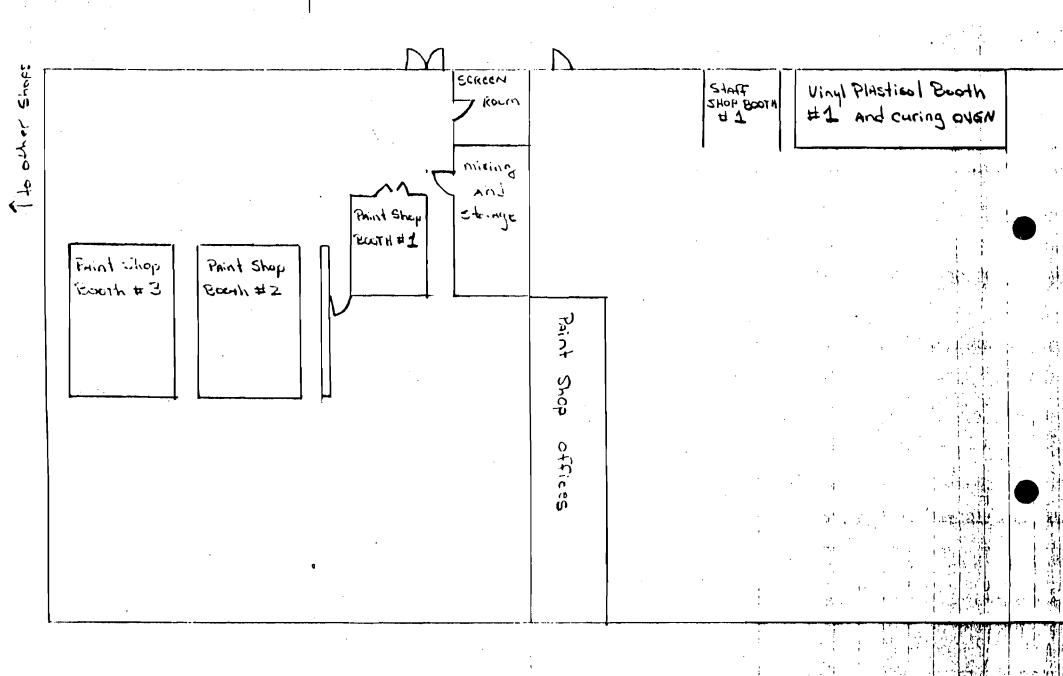
Attachment #2



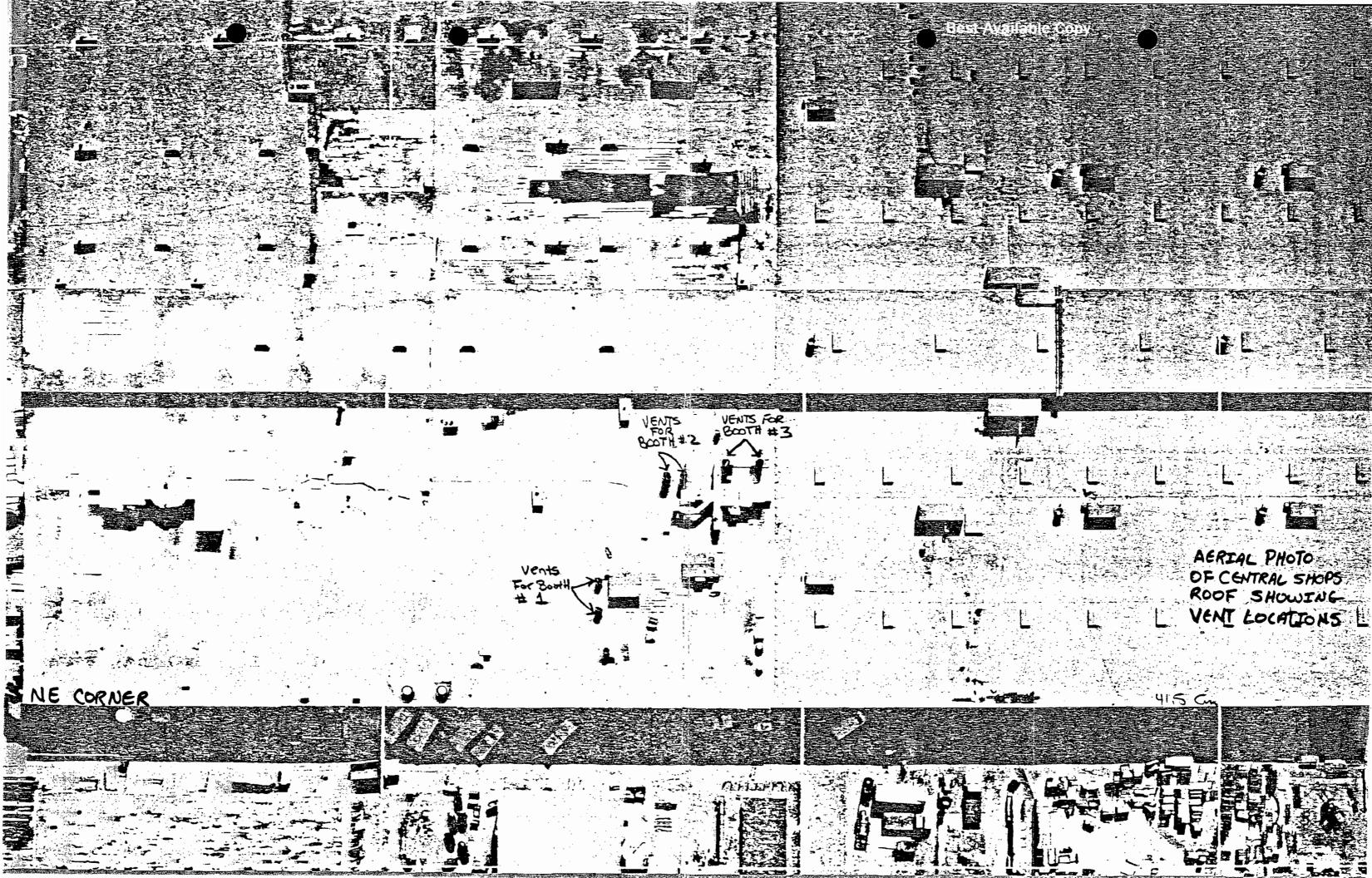
Attachment #3







SKETCH OF FACILITY LAYOUT, not to SCALE



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AC 48-75835

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL SEP2 - 1983 BOR GRAHAM ST. JOHNS RIVER GOVERNOR DISTRICT SAINT JOHNS OVICTORIA J. TSCHINKEL 3319 MAGDIRE BOULEVARD SUITE 232 DORLANDO FLORIDA 32803 SECRETARY RIVER DISTRICT ... DISTRICT MANAGER OCT 6 1983 APPLICATION TO OPERATE/CONSTRUCT AIR POLCUTION [] New [] Existing l Spray Paint Booth APPLICATION TYPE: [X] Construction [] Operation [] Modification county: Orange COMPANY NAME: WALT DISNEY WORLD CO. Inc. Identify the specific emission point source(s) addressed in this application (i.e. Lime NSA Paint Shop Paint Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Booth #3 SOURCE LOCATION: Street Facilities Way City Bay Lake 443506 North 3144309 : :UTM: East 25 ' 32 "N Longitude 81 ° Latitude 28 APPLICANT NAME AND TITLE: Edward B. Crowell, Vice President Facilities Division APPLICANT ADDRESS: P.O. Box 40. Lake Ruena Vista Florida 32830 SECTION I: STATEMENTS BY APPLICANT AND ENGINEER APPLICANT I am the undersigned owner or authorized representative* of WALT DISNEY WORLD Co. I certify that the statements made in this application for a construction permit are true, correct and complete to the best of my knowledge and belief. Further, I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. 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 permytte establishment. Signed: *Attach letter of authorization Fdward B. Crowell V P Facilities Division Name and Title (Please Type) Telephone No. (305) 824-7700

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 an experience by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that

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

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

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

Nº 75015

RECEIPT FOR APPLICA	ATION FEES AND MISCELLA	NEOUS REVENUE
Received from Walt Disne	y World Co.	_ Date Sent 23, 1983
Address P.O. But 40, all	Buena Vista	
Applicant Name & Address	<u> </u>	
Source of Revenue	Dame	1/- 2/-23/
Source of Revenue	63 Application Number AC 9	18-75837 AC48-75839
	By K	tellock

Defended that the property of the restriction of the property 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. Reedy Creek Utilities Co., Inc.

Company Name (Please Type) P.O. Box 40 Lake Buena Vista, FL 32830 Mailing Address (Please Type) Telephone No. (305) 824-4950 SECTION II: GENERAL PROJECT INFORMATION 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. Spray paint booth for coating a variety of objects including vehicles, wooden furniture, trash cans, ride components, posts and frames using 2 part polyurethane, 2 part acrylic, epoxy primers and other primer coating systems Schedule of project covered in this application (Construction Permit Application Only) Start of Construction existing booth Completion of Construction N/A 12 8 121 grade and the second second Costs of pallution 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 operations permit:) new professor of the contraction of the co Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates. Nonth Permit applications called in by Chuck Collins of Florida DER to be submitted by 9/16/83.

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

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If yes, see Section Do-"Standards of Performance for New Stationary Source apply to this source? Do "National Emission Standards for Hazardous Air Po (NESHAP) apply to this source? "Reasonably Available Control Tachnology" (RACT) required this source? a. 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If yes, has "Lowest Achievable Emission Rate" been applied? c. If yes, list non-attainment pollutants. VOC Does best available control technology (BACT) apply to this mource? If yes, mee Section VI. Does the State "Prevention of Significant Deterioriation" (PSD) requirement apply to this mource? If yes, mee Sections VI and VII. Do-"Standards of "Performance for New Stationary Sources" (NSPS) apply to this source? Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this mource? **Reasonably Available Control Technology" (RACT) requirements apply this source? 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.	This is a new source or major modification, answer the following questions. (so or No). Is this source in a non-attainment area for a particular pollutant? Yes 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 evailable control technology (BACT) apply to this mource? If yes, mee Section VI. Does the State "Prevention of Significant Deterioriation" (PSD) requirement apply to this mource? If yes, ese Sections VI and VII. Do "Standards of Performance for New Stationary Sources" (NSPS) mo (NESHAP) apply to this mource? Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this mource? "Reasonably Available Control Technology" (RACT) requirements apply this mource? 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. tach all supportive information related to any answer of "Yes". Attach any this for any answer of "No" that might be considered questionable.

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

મિલાના પૈકી પૂર્વ તાલે માટે જ હતા. કેનો કાલ્મેફ પા ઇસ્ટ્રાફ**ા**લના કે ઉપદાયક શકે.

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

and the second of the second o	Contam	inants	Utilization	manuscriptor on the second second second second second second second second second second second second second
Description	Туре	% W t		Relate to Flow Diagram,
2∋part polyurethan	eVOC/Partic.	0%/100%	ent de la company de la compan	Paint application
2-part acrylic enam	nelVOC/Partic	0%/100%	कुंकु रने चिक्रिये जन्म्य है.	Paint application
2-part epoxy prime	VOC/Partic:		er Million (1995) Deficie (1995) registração	Paint application
conventional prime				ARTHUR DOWN THE TOTAL COM
systems	VOC/Partic.	0%/100%	erin da Dizoto y 18 o engen	Paint application

Thinners VOC/Partic, 0%/100%	Thinners for pasint applia
B. Process Rate, if applicable: (See Section V, It	em 1) Cation 1974
1 Total Process Input Rate (lbs/hr):	The second secon
2. Product Weight (1bs/hr):	the significant of the second

Airborne Contaminants Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary) See Attachment #1 Parts A-G for Calculations

Name of	Emission ¹	Allowed ² Emission Rate per	Allowable ³ Emission	Potential ⁴ == Emission	Relate to Flow
Contaminant	Maximum Actual lbs/hr T/yr	Rule 17-2	" lbe/hr	lbe/yr T/yr	Diagram
VOC	23.8 49.5		er en en en en en en en en en en en en en	99 000 ** 49 5	
Particulate	0.93 + 1.94	and the second second	e title selection in the	79,000	
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¹See Section V, Item 2.

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 $^{^2}$ 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 hest input)

³Calculated from operating rate and applicable standard.

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

D. Control Devices: (See Section V, Item) .	Control	Devices:	·(See	Section	٧.	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)
Binks Paint Arrestor	Particulate	95%	N/A	Mfg. Specs.
Filters model #29-893		4		
Filter Bank dimensions				
2 filter banks 6.7 x		Property Commence	William Control	
13.3 ft. for a total o	f			Committee of the state of the s
178 sq. ft.				1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1

E. Fuels N/A

ſ	The state of the s	Consum	ption*	, , , , , , , , , , , , , , , , , , , ,
-	Type (Be Specific)	avg/hr	max./hr	Maximum Heat Input (MMBTU/hr)

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

Fuel Analysis:

Percent Sulfur:

Density:

Ibs/gal Typical Percent Nitrogen:

BTU/lb

BTU/gal

Other Fuel Contaminants (which may cause air pollution):

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

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

P. Adriga Galage St. Tel. 5

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ter Vapor Cont	ent: _	ambient	<u> </u>	×	Velocity:		42.1	_FPS
*At ¼" water s	tatio r		****	a to a promate	See Attachm	ent #1, Par	rt I	
	A A	SEC1	ION IA:	INCINERA	See Attachm TOR INFORMATI	N/A	e ji da iya da aka ka ka a a a a a a a a a a a a a	
Type of Waste (Plas			Type II (Refuse)		II Type IV e) (Patholog- ical)	. ,,	Type VI s (Solid By-pro	d.)
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trolled lbs/hr) scription of Westal Weight Incomproximate Number constructed c	nerate or of H	olume ft)	Operation	Mode	Design Cap day/	WK	Temperature (°F)	FPS

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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 air-borne 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.

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9. The appropriate application fee in accor	dance with Rule 17-4.05. The check should be
made payable to the Department of Environ	nmental Regulation.
struction indicating that the source w	t, attach a Certificate of Completion of Con- as constructed as shown in the construction
en de la final de la composition de la composition de la composition de la composition de la composition de la La composition de la	grandens and the second of the management of the second of the second of the second of the second of the second
SECTION VI: BEST AVAIL	LABLE CONTROL TECHNOLOGY
A. Are standards of performance for new sta applicable to the source?	itionary sources pursuant to 40 C.F.R. Part 60
A T Yes [] No	
Contaminant	Rate or Concentration
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The second section is a second of the second second section in the second secon	The secretary of the se
The second secon	
	trol technology for this class of sources (If
yes, attach copy)	
[] Yes [] No	 การสมาราช พ.ศ. พ.ศ. พ.ศ. พ.ศ. ค.ศ. พ.ศ. พ.ศ. พ.ศ.
santaki santaki	Rate or Concentration
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C. Gwner emission levels do you propose as De	est available control technology?
Contaminant	Rate or Concentration (1)
The second secon	<u> San katawa na mangangan katawa na mangangan na mangangan na mangangan na mangangan na mangangan na mangangan</u>
The second secon	
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The state of the s	មិនប្រជាជាធិប្រជាជាធិប្រជាជាធិប្រជាជាធិប្បធិប្បធិប្បធិប្បធិប្បធិប្បធិប្បធិប្
D. Deacribe the existing control and treatme	ent technology (if any). The same the care
and the second of the second of the second of the second	្រុមស្រីស្រីស្រី និងស្រីស្រីស្រីស្រីស្រីស្រីស្រីស្រីស្រីស្រី
3. Efficiency: * State of the control of the contro	
	្ន <mark>ាង. [Capital Costs:]</mark>
*Explain method of determining	and the state of t
	8 of 12

Useful Life: Energy: Maintenance Cost: Emissions: Contaminant Rate or Concentration 10. Stack Parameters ft. . Diameter: a. Height: ACFM d. Temperature: c. Flow Rate: PF S e. Velocity: Describe the control and treatment technology available (As many types as applicable, .use additional pages if necessary). 1. Control Device: Operating Principles: d. Cspital Cost: Vi c. Efficiency:1 f. Operating Cost: e. Useful Life: g. Energy:² h. Maintenance Cost: i. Availability of construction materials and process chemicals: j. Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: Control Device: Operating Principles: d. Capital Cost: c. Efficiency: 1 f. Operating Cost: e. Useful Life: Energy: 2 h. Maintenance Cost: . i. Availability of construction materials and process chemicals: Explain method of determining efficiency. 2 Energy to be reported in units of electrical power – KWH design rate. DER Form 17-1,202(1)

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Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: - Page to gain 3. Operating Principles: Efficiency:1 Capital Cost: d. Useful Life: Operating Cost: Energy: 2 h. Maintenance Cost: Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: Operating Principles: Control Device: ...Ь. រករដ្ឋាធិត្ត Capital Costs: Efficiency:1 Useful Life: Operating Cost: Energy: 2 h. Maintenance Cost: Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: Describe the control technology selected: N. Dinner Chapter 2. Efficiency: 1 . l. Control Device: 化医前膜系统 经销售 医大型黄斑医黄斑病 二百萬時 3. Capital Cost: Vseful Life: " Energy: 2 5. Operating Coat: Maintenance Cost: Manufacturer: Other locations where employed on similar processes: a. (1) Company: (2) Mailing Address: Transferdinger a transfer & (4) State: (3) City: ¹Explain method of determining efficiency. ²Energy to be reported in units of electrical power - KWH design rate. DER Form 17-1.202(1) Page 10 of 12 Effective November 30, 1982

(5) Environmental Manager:	The proof of the last the second of the second of
(6) Telephone No.:	લે અમુક્ત આ મુદ્રામું આપ્યા કૃષ્ટિક છે. તે વર્ષ જેમને સ્ફ્રિક્ષ્ટ્ર છે. તે
(7) Emissions: 1	
Contaminant	Rate or Concentration
	and the second of the second o
(8) Process Rate: 1	*****
b. (1) Company:	and the control of th
(2) Mailing Address:	er ar a force, com on a management and deputy on a summation of suppose a construction and a suppose of the sup
(3); City: (3); (3); (4); (4); (4); (4); (4); (4); (4); (4	(4) State:
(5) Environmental Manager:	
(6) Telephone No.:	
(7) Emissions: 1	
Contaminant	Rate or Concentration
(8) Process Rate: 1 10. Reason for selection and description	
Applicant must provide this information when available, applicant must state the reason(s)	available. Should this information not be
	why.
SECTION VII - PREVENTION OF	SIGNIFICANT DETERIORATION
A. Company Monitored Data	
1. no. sitesTSP	() SO ² * Wind spd/dir
Period of Monitoring	/ to / /
month day	y year month day year
Other data recorded	
Attach all date or statistical summaries to	o this application.
A garage of the second of the second of the	
*Specify bubbler (B) or continuous (C).	
DER Form 17-1.202(1) Effective November 30, 1982 Page 11	l of 12

	2. Instrumentation, Field and Laboratory
	a. Was instrumentation EPA referenced or its equivalent? [] Yes [] No programme () Yes
· · · ·	b. Was instrumentation calibrated in accordance with Department procedures?
	[] Yes [] No [] Unknown
8.	Meteorological Data Used for Air Quality Modeling
	1 Year(s) of data from/
	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
	Modified? If yes, attach description.
	Ž. Modified? If yes, attach description.
	3. Modified? If yes, attach description.
	4. Modified? If yes, attach description.
D.	Applicants Msximum Allowable Emission Data Pollutant Emission Rate
* *	TSP grams/sec
. *	CO2
Ε.	Entoring Date Handring Madalina
	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,
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.
н.	Attach scientific, engineering, and technical material, reports, publications, journals, and other competent relevant information deacribing the theory and application of the requested best available control technology.
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· :.	
	Form 17-1.202(1) Page 12 of 12

Attachment #1

A. Quantities of Paints and Thinners Used:

Table 1 - Quantities and Varieties of Paints Used*

Type of Paint	Approx. Daily Usage	Percentage Thinner
2-part polyurethane 2-part acrylic enamel 2-part epoxy primer other primers	70 gal* 36 gal* 4.4 gal* 1.6 gal*	50% (thinned for application) 50% (thinned for application) 20% (thinned for application) 20% (thinned for application)

^{*}Including volume of thinners added

Table 2 - Volumes of Thinners Used

Type of Paint	Daily Usage	Yearly Usage
2-part polyurethane 2-part acrylic enamel 2-part epoxy primer other primers	35 18 0.88 0.32	9100 gal* 4680 gal* 228 gal* 83.2 gal* (includes only solvents added as thinners)

^{*}Based on 5 day/week, 52 weeks/year

B. Calculation of Density (lbs/gal) for a Typical Manufactures Thinner Formulation Used with Two Part Coating Systems:

Calculations for the density of the thinning solvents used for the two part coating systems is based on the composition of Ditzler DTR 60Z reducing solvent which is typical of the solvent mixtures used.

Petroleum Distillates	35%	(Approx. 6.5 lbs/gal, based on mineral spirits)
Toluol (toluene)	25%	(7.26 lbs/gal)
Acetone	15%	(6.59 lbs/gal)
Ethyl Acetate	10%	(7.51 lbs/gal)
Aromatic Hydrocarbon	15%	(Approx. 7.2 lbs/gal, based on
-		xylene)

Contributions of Solvents to Mixture Density:

Petroleum distillates	(0.35) $(6.5 lbs/gal) =$	2.28
Toluol (toluene)	(0.25) $(7.26 lbs/gal) =$	
Acetone	(0.15) $(6.59 lbs/gal) =$	
Ethyl Acetate	(0.10) $(7.51 lbs/gal) =$	
Aromatic Hydrocarbon	(0.15) $(7.2 lbs/gal) = 1$	1.1

Mixture density= 6.94 lbs/gal

^{*}AP-42 supplement 12, April 1981 states, "two part catalyzed coatings to be dried, powder coatings, hot melts, and radiation cured coatings contain essentially no volatile organic compounds although some monomers and other lower molecular weight organics may volatilize." Therefore, the total VOC emission from these two part systems comes from the solvent used to thin them prior to spraying.

Calculation of Density September 15, 1983 Page Two

C. Solvent Emissions from the Use of Two Part Coating Systems:

Solvent emissions from the two part coating systems are limited to the amount of thinning solvents used to achieve high quality finishes (See Table #1)

Table 3 - Total Emissions from Two Part Coating Systems

Type of Paint	Volumes of Thinners Used	Yearly VOC Emissions
2-part polyurethane	9100 gal/yr.	31.6 T/yr.
2-part acrylic enamel	4680 gal/yr.	16.2 T/yr.
2-part epoxy primer	228 gal/yr.	0.8 T/yr.
other primers	83.2 gal/yr.	0.28 T/yr.

Sample calculation for 2-part polyurethane

9100 gallon thinners used per year for 2-part polyurethane system, density of thinner is approx. 6.94 lbs/gal:

[(9100 gal) (6.94 lbs/gal)] : 2,000 lbs/ton = 31.6T/yr.

D. Solvent Emissions from the One Part Primers (Other Primers)

The solvent emissions from the one-part "other primers" is composed of two components - the solvents already present in the paint formulation and the solvents added to thin the primer prior to application.

VOC emissions from solvents already present: approximate yearly usage volume = 416 gallons thinned with 20% thinner or 332.8 gallons unthinned.

AP-42 supplement 12, table 4.2.2.1-2 states that surfacer primer are typically 49% solids by volume which equates to 51% solvents by volume.

(332.8 gal unthinned primer) (0.51) =169.7 gal solvents the solvent used in these one part primers is typically toluene whose density is 7.26 lbs/gallon, therefore: (0.62 gal/yr.) (7.26 lbs/gal) = 616.4 lbs/yr or 0.31 tons/yr from the unthinned portion of the primer.

The thinner used amounts to 416 gal/yr. total -332.8 gal/yr. unthinned primer or 83.2 gals, all of which ends up as VOC emissions: (83.2 gal/yr) (6.94 lbs/gal*) = 577.4 lbs/yr. or 0.29 I/yr.

*See Part B of this attachment

Total solvent emissions from one part primers: (0.624T/yr. from primer itself) + (0.29 T/yr. from thinning solvents) = 0.91 T/yr.

Total Yearly VOC Emissions September 13, 1983 Page Three

E. Total Yearly VOC Emissions:

Source of Emissions	Amount
2-part polyurethane system* 2-part acrylic enamel*	31.6 T/yr. 16.2 T/yr.
2-part epoxy primer*	0.8 T/yr.
other primers*	<u>0.9</u> T/yr.
*Includes Thinners Total:	49.5 T/yr.

F. Particulate Emissions:

Estimates for overspray percents obtained from AP-40, second edition, page 861:

Method of Spraying		% Over S	pray
	Flat Surface	Table Leg	Bird Cage
Air atomization	50%	85%	90%

Binks manufacturing quotes a 95% efficiency rating for its paint arrestor type filters (model 29-893) when used with enamels, primers and two part systems.

The items to be coated in this booth can be broken down as follows:

20%	wooden furniture	(50% flat-50% table leg surfaces)
55%	automotive type	(100% flat type surfaces)
15%	flat surfaces	(100% flat type surfaces)
10%	posts and frames	(99% table leg-1% bird cage type
	·	surfaces)

Table 4 - Composite Overspray Rates

Type Surface	Composite Overspray Percentage
Wooden furniture	67.5%
Automotive type	50%
Flat surfaces	50%
posts and frames	85.1%

Unthinned 2-part coating systems can be viewed as being essentially all particulate in content. (AP-42, supplement 12, section 4.2.2-1)

Particulate Emissions September 13, 1983 Page Four

Table 5 - Volumes of Unthinned 2-part Coating Systems

<u>Paint Type</u>	Volume of	Unthinned Material	Weight
2-part polyurethane	9100 gal	(9.2 lbs/gal)*	41.9 tons
2-part acrylic enamel	4680 gal	(8.9 lbs/gal)*	20.8 tons
2-part epoxy primer	916 gal	(10.5 lbs/gal)*	4.8 tons

^{*}See AP-42 Table 4.2.2.1-2

Particulate emissions from two part coating systems: The calculations proceed as follows:

(Tons of coating system) x (Percentage of items coated) x (Overspray percentage) = tons of particulate in overspray

Sample calculation for 2-part polyurethane system:

(41.9 tons) (20% wooden furniture) (6.75% overspray) = 5.66 tons (41.9 tons) (70% flat type surfaces) (50% overspray) = 14.7 tons (41.9 tons) (10% postsand frames) (85.1% overspray) = 13.57tons Total particulate overspray from 2-part polyurethane = 23.9 tons/yr.

Efficiency of paint arrestor filter is 95%, therefore, 5% of total overspray is emitted from booth (23.9 tons/yr.) (.05) = 1.20 tons/yr. emitted.

Table 6 - Total Particulate Emissions From 2-part Coating Systems

Paint Type	Ton/Yr. Particulates Emitted	Total Particulate Overspray
2-part polyurethane 2-part acrylic enamel 2-part epoxy primer	1.20 tons/yr. 0.60 tons/yr. 0.14 tons/yr.	23.9 tons/yr. 12.0 tons/yr. 2.8 tons/yr.
Total emitted from 2-part systems	1.94 tons/yr.	

Particulate emissions from "other primers"

AP-42, Table 4.2.2.1-2 states that typical surfacer primers are 49% solids and have a density of 9.4 lbs/gal yearly useage of "other primers" is approximately 166.4 gal/yr.

(332.8 gal/yr) (9.4 lbs/gal) (0.49 solids) = 1532.9 lbs/yr. particulate sprayed = 0.77 T/yr.

The rest of the calculation proceeds as the above to yield total particulate emissions from "other primers" of $0.02\,\text{T/yr}$.

Particulate Emissions September 13, 1983 Page Five

G. Yearly Total Particulate Emissions

Total	from	2-part systems	1.94 tons/yr.
		other primers	0.02 tons/yr.
		Total:	1.96 tons/yr.

Potential emission without filters
Total from 2-part systems = 38.8 tons/yr.
Total from "other primers" = 0.44 tons/yr.
Total potential emissions = 39.2 tons/yr.

H. Contaminants and Utilization Rates:

Table 7 - Utilization Rates

Type of Paints	Approx. Daily Usage (Unthinned Paints)	Density	Utilization Rates
2-part polyurethane 2-part acrylic 2-part epoxy primer other primers thinners	35 gal	9.2 lbs/gal*	20.2 lbs/hr.
	18 gal	8.9 lbs/gal*	10.0 lbs/hr.
	3.6 gal	10.5 lbs/gal*	2.4 lbs/hr.
	1.2 gal	9.4 lbs/gal*	0.8 lbs/gal
	54.2 gal	6.94 lbs/gal**	23.6lbs/gal

Table 8 - Weight Percent of Contaminants

Type of Paint	Weigl <u>VOC</u>	ht Percents Particulate	Source of Figure
2-part polyurethane	0%	100%	AP-42, 4.2.2.1
2-part acrylic enamel	0%	100%	AP-42, 4.2.2.1
2-part epoxy primer other primers	0%	100%	AP-42, 4.2.2.1
	51%	49%	AP-42, 4.2.2.1-2
thinners	100%	0%	n: -12, 4,2,2,1-2

I. Calculation of Gas Flow Rates and Velocities

Exhaust Fans:

Booth is equipped with two exhause fans from Binks Manufacturing, model 30-4418 rated at 23250 SCFM at "WC static pressure (See Attachment #2)

Total air flow from both fans 48500 SCFM at ½" WC static pressure

Stack diameter 3.5 ft.

radius 1.75 ft.

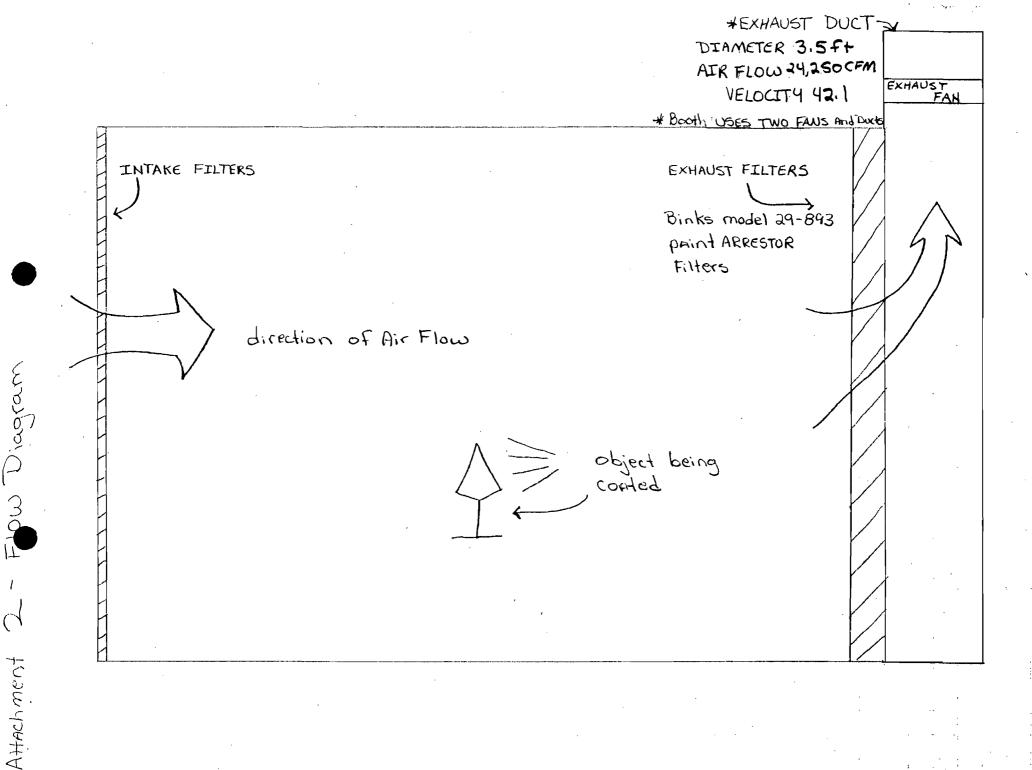
Cross sectional area of stack = TTr² = (3.14) (1.75)² = 9.61 sq. ft.

Air velocity from stack = (24,250 CFM ÷ 9.61 sq. ft.)

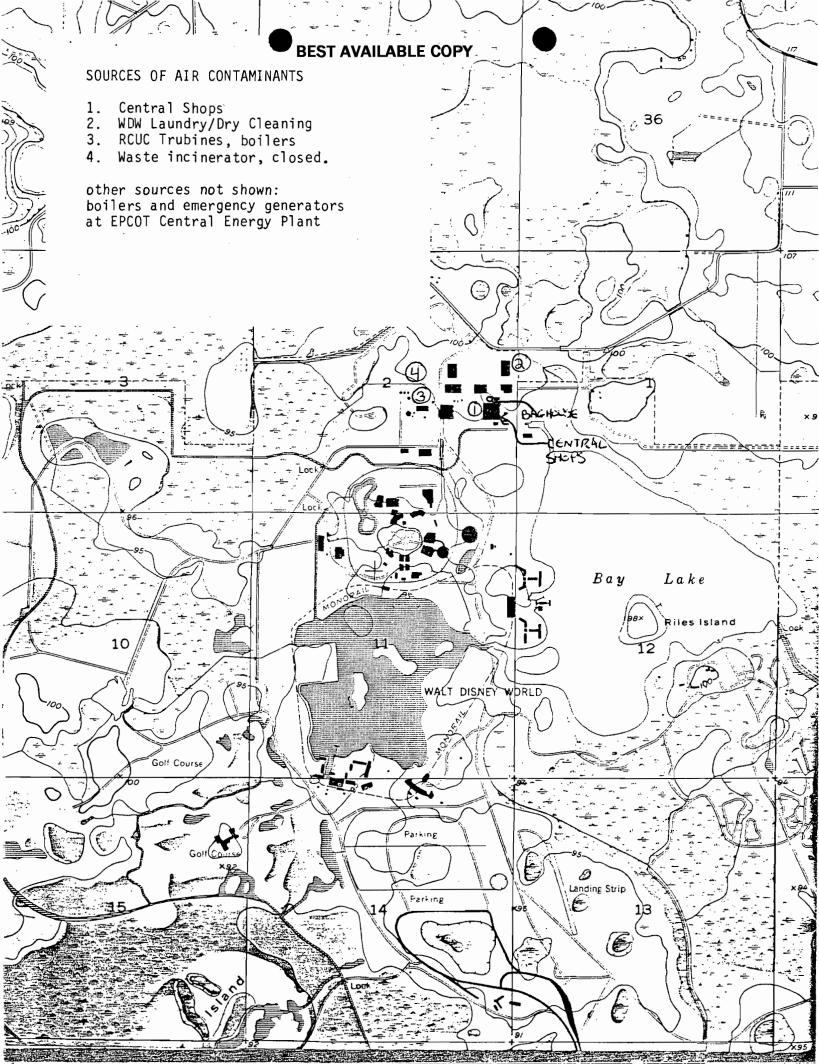
= 2523 FPM

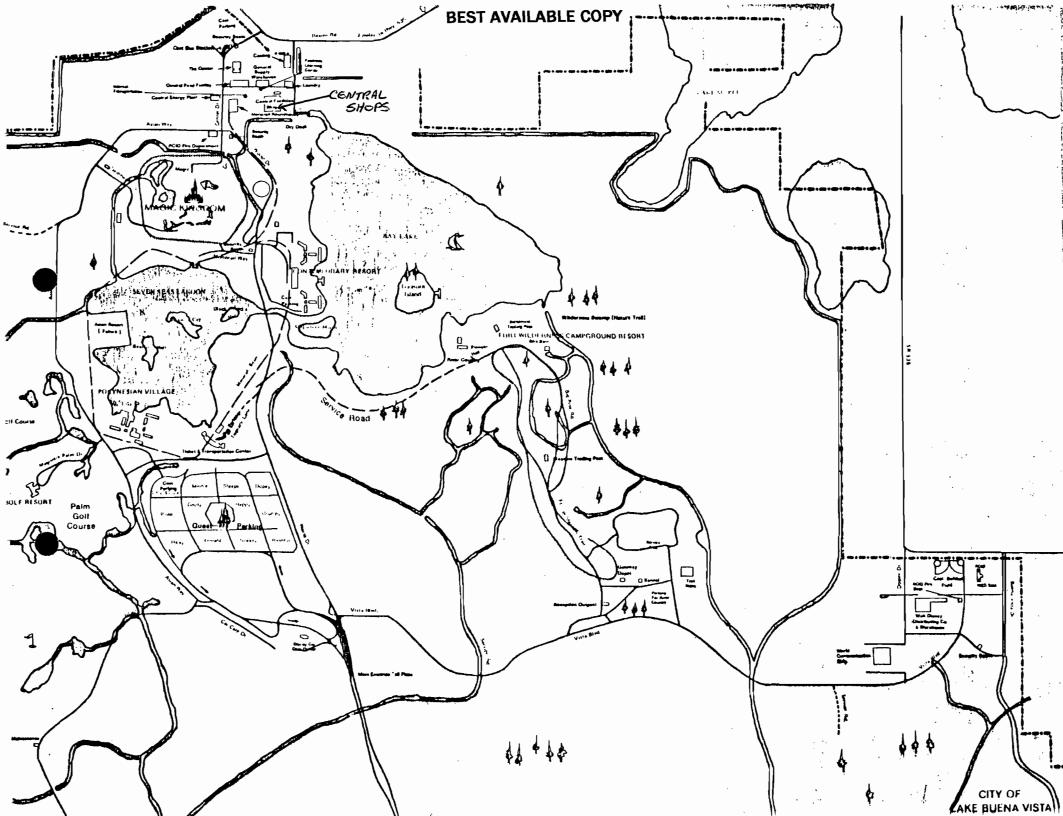
= 42.1 FPS through each of two vents

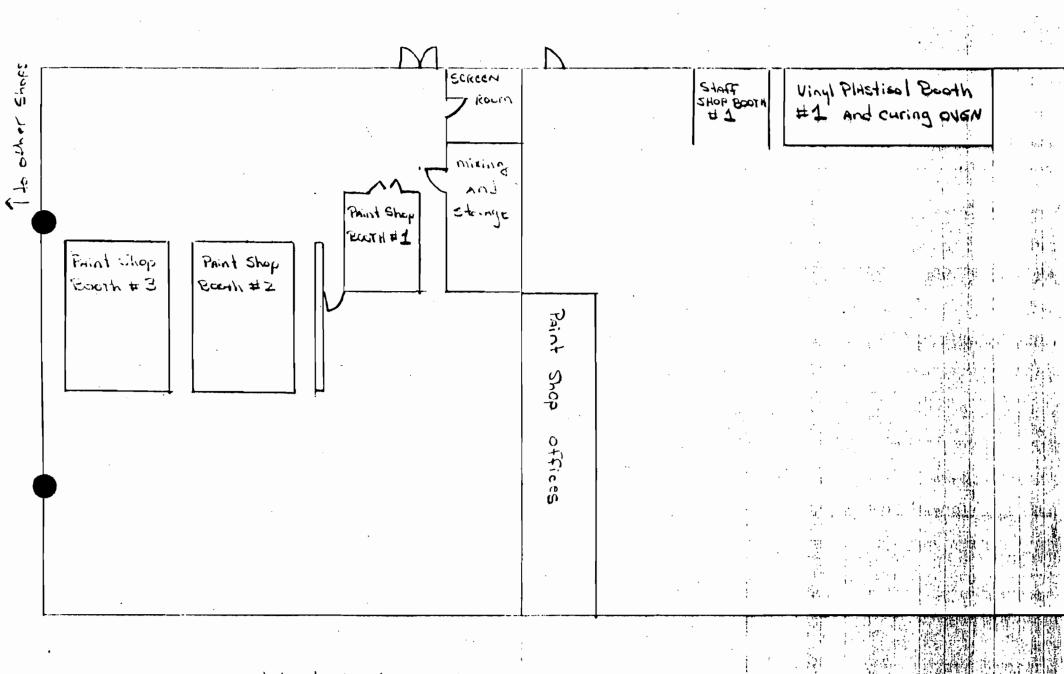
Attachment #2



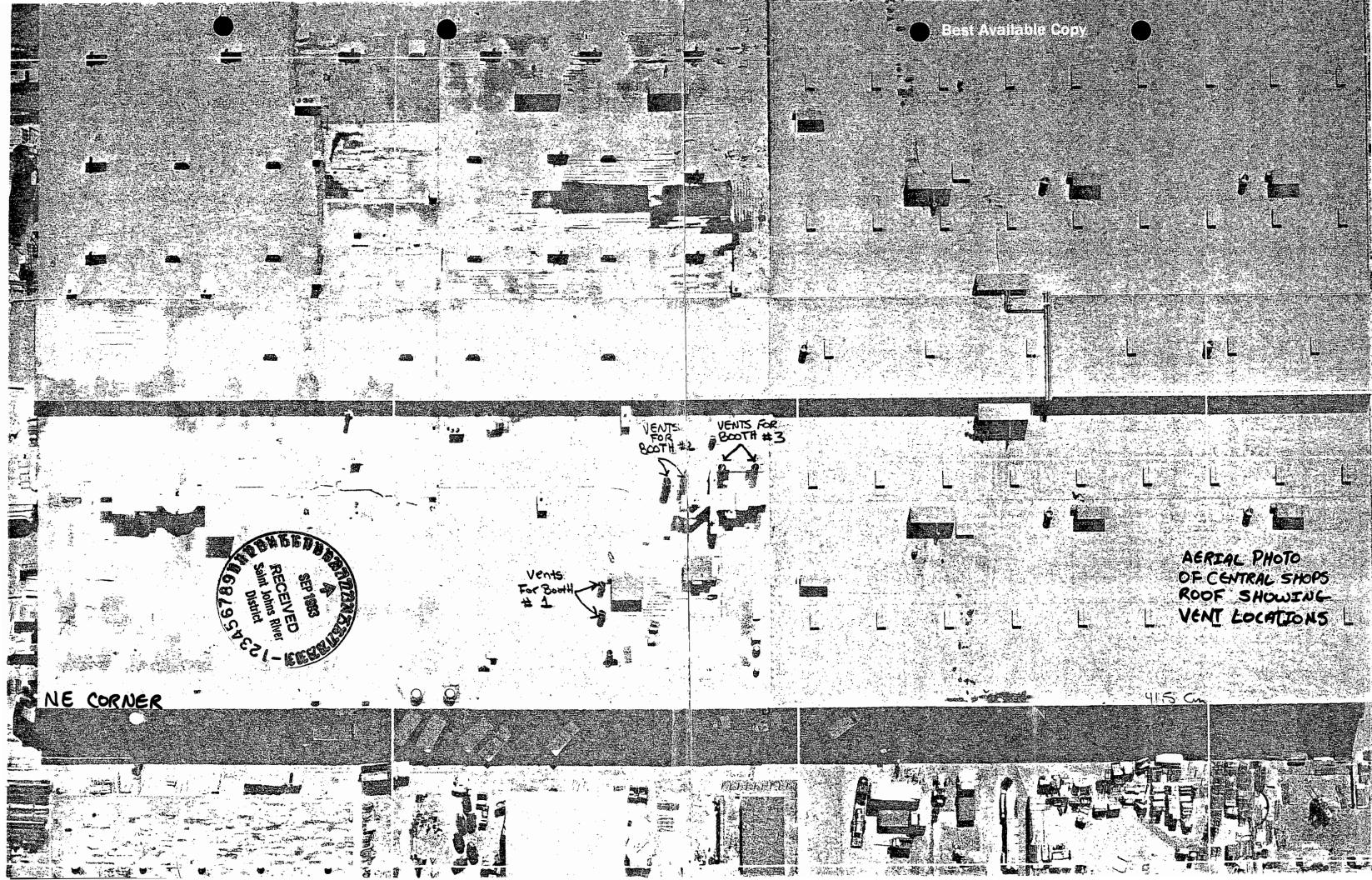
Attachment #3







SKETCH OF FACILITY LAYOUT, not to SCALE



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STATE OF FLORIDA

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DEPARIMENT OF ENVI	HONMENIAL	REGULATION	
DISTRICT 1319 MAGUIRE BOULEVARD SEP 2 1988	The state of the s		BOB GRAHAM GOVERNOR PRIA J. TSCHINKEL SECRETARY ALEX SENKEVICH ISTRICT MANAGER
BAQM APPLICATION TO OPERATE	CONSTRUCT AIR PO	MATTION SOMECIES	
SOURCE TYPE: Spray Booth	[] New ¹	X	
APPLICATION TYPE: [X] Construction []	Operation [] Mo	odification	
COMPANY NAME: WALT DISNEY WORLD Co., Inc	•	COUNTY: Ora	ange
Identify the specific emission point sour		NSA Staff SI	nop
SOURCE LOCATION: Street Facilities Way		City Bay 1	ake
UTM: East 443558			,
Latitude 28 ° 25 '			י 36 יי
APPLICANT NAME AND TITLE: Edward B. Crow	ell, V.P. Facilit	ies Division	
APPLICANT ADDRESS: P. O. Box 40 Lake Bue			
SECTION I: STATEMEN			
A. APPLICANT	•	-	
I am the undersigned owner or authori	zed representativ	e* of WALT DISNEY	WORLD Co.,Inc
I certify that the statements made in permit are true, correct and complete I agree to maintain and operate the facilities in such a manner as to c Statutes, and all the rules and regul also understand that a permit, if grand I will promptly notify the depart establishment.	to the best of me pollution contromply with the pations of the departed by the departed by	y knowledge and be ol source and pol rovision of Chapte artment and revision artment, will be no	lief. Further lution control of 403, Florid ons thereof.
*Attach letter of authorization	Signed:	Dall 13. W	
	Edward B. Crow Name and	ell. V.P. Facilitie Title (Please Type)	s Div
		_ Telephone No	
B. PROFESSIONAL ENGINEER REGISTERED IN F	LORIDA (where req	uired by Chapter 47	1, F.S.)

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

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

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	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 factilities and, if applicable, pollution sources.
S. S. S. S. S. S. S. S. S. S. S. S. S. S	Signed Signed Name (Please Type)
	Recy Creek Utilities Co. Company Name (Please Type) PO. BOX 40 LAKE BURNA VISTA, FLA Mailing Address (Please Type) Recy Creek Utilities Co. Rec
Flo	rida Registration No. 25555 Date: 9/2/83 Telephone No. 305-824-495
Α.	Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.
	Installation of Binks Manufacturing model PFF type spray booth with model 30-800
	fan rated at 24,800 SCFM to be used for spraying polyester resin systems, laquer
	based primers and sealers, and polyvinyl alcohol on fiberglass objects and molds.
١.,	Schedule of project covered in this application (Construction Permit Application Only)
	Start of Construction existing booth Completion of Construction
•	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.)
•	Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.
	Permit application called in by Chuck Collins of Florida DER to be submitted by
	9/16/83.
	Form 17-1.202(1) ctive October 31, 1982

_		
	this is a new source or major modification, answer the following quest	tions.
•	Is this source in a non-attainment area for s 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	
•	Does best available control technology (BACT) apply to this source? If yes, see Section VI.	no
•	Does the State "Prevention of Significant Deterioristion" (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 source?	no
	"Ressonably Available Control Technology" (RACT) requirements apply this source?	no

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

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

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

	Conteminants		Utilization			
Description	Type	% Wt	Rate - lbs/hr	Relate to Flow Diagram		
polyester gelcoat	VOC/Partic.	0/100	0.4			
laquer based prime	rs VOC/Partic.	56 <u>/44</u>	0.1			
polyvinyl alcohol	VOC/Partic.	0/100	0.1			
styrene (thinner)	VOC/Partic.	0/100	0.02			
acetone (thinner)	VOC/Partic.	100/0	0.02			

8.	Process	Rate.	i f	applicable:	(500	Section V	. 1	Itam	1 3	١
		,		abbircania.	1200	36667011 4	, .		-,	,

1. Total	Process	Input	Rate	(lbs/hr):	
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C. Airborne Contaminante Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary)

Name of	Emission	Allowed ² Emission Rate per Rule 17-2	Allowable ³ Emission lbs/hr	Potential ⁴ Emission		Relate to Flow
Conteminant	Maximum Actual lba/hr T/yr			lbs/yr	T/yr	Diagram
VOC .	0.08 0.08			166	0.08	
Particulate	0.02 0.02			586.4	0.29	
			·	_	<u>.</u>	

¹See Section V, Item 2.

Product Weight (lba/hr):_

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

³Calculated from operating rate and applicable standard.

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

D. Control Devices: (See Section V, Item	D.	Control	Devices:	(See	Section	٧,	Item	t
--	----	---------	----------	------	---------	----	------	---

Name and Type (Model & Serial No.)	Conteminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Binks Paint arrestor	Particulate	80% for laquer	S	Mfg. Spec.
Type filter model		95% for two pa	rt systems	Mfg. Spec.
29-893. Filter Bank				
dimensions 8.3 ft. x		·		
16.7 ft. or 139 sq. ft	•			

E. Fuels N/A

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

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

E	ue	1	٨		1			_	
2	ue	1	A	nа	1	VE	31	8	:

Fuel Analysis:					
Percent Sulfur:		Percent Ash:			
Density:	lbs/gal	Typical Percent Nitrogen:			
Heat Capacity:	BTU/1b		BTU/gsl		
Other Fuel Contaminants (which may F. If applicable, indicate the pe					
Annual Average	Ma	ximum	•		
G. Indicate liquid or solid waste	a generated	and method of disposal.			

H. Emission		-	,			•	
							ft
Gas Flow Rate:	·	ACFM_2	4,800*	_DSCFH &	as Exit T	emperature:	ambient •F
Water Vapor Co	ontent:	ambient		x v	elocity:	43	FP
*½" W.C.	. static	pressure SECT	ION IV:	INCINERAT	DR INFORM	ATION	
		Type I (Rubbish)				og- (Liq.& Ga	Type VI s (Solid By-prod.)
Actual lb/hr Inciner- ated							
Uncon- trolled (lbs/hr)			,				
Approximate Nu						ay/wk	wks/yr
ate Construct	ed		<u> </u>	Model	No		
		Volume (ft) ³	1	elease /hr)	Type	BTU/hr	Temperature (°F)
Primary Chamb	er						
Secondary Cha	mber						. ,
tack Height:		ft. :	Stack Diam	ster:		Stack	Temp.
as Flow Rate:			_ACFH		DSCF	* Velocity:	FP
If 50 or more ard cubic foo						ssions rate	in grains per stan
ype of pollut							fterburner
ER Form 17-1.			, , 0,		-·,·		

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		-	_										
sposal	o f	any											
											•		<u>.</u>
								·					
	sposal	sposal of	sposal of any	sposal of any efflu	sposal of any effluent	sposal of any effluent other	sposal of any effluent other than	sposal of any effluent other than that	sposal of any effluent other than that emitted	sposal of any effluent other than that emitted from	sposal of any effluent other than that emitted from the	sposal of any effluent other than that emitted from the stack	sposal of any effluent other than that emitted from the stack (scrubber

·

SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following aupplements 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.
- 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 readways (Example: Copy of relevant portion of USGS topographic map).
- 48. 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.

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		it, attach a Certificate of Completion of Conwas constructed as shown in the constructio
	SECTION VI: BEST AVAI	LABLE CONTROL TECHNOLOGY
A •	Are standards of performance for new stapplicable to the source?	ationary sources pursuant to 40 C.F.R. Part 6
	[] Yes [] No	
	Conteminant	Rate or Concentration
		· .
	Has EPA declared the best available coryes, attach copy)	ntrol technology for this class of sources (I
	[] Yes [] No	
	Contaminant	Rate or Concentration
		· ,
· ·	What emission levels do you propose as b	est available control technology?
	Contaminant	Rate or Concentration
		·
٠.		
). 1	Describe the existing control and treatm	ent technology (if any).
	l. Control Device/System:	2. Operating Principles:
	3. Efficiency:*	4. Capital Costs:
	lain method of determining	

	5.	Useful Life:		6.	Operating Costs:	
	7.	Energy:		8.	Maintenance Cost:	
	9.	Emissions:				
		Contaminant			Rate or Concentration	
·						
	10.	Stack Parameters				
	a.	Height:	ft.	b.	Diameter:	ft.
	c.	Flow Rate:	ACFH	d.	Temperature:	°F.
	•.	Velocity:	FPS			
Ε.		cribe the control and treatment additional pages if necessary)		olog	y available (As many types as app	licable,
	1.				•	
	8.	Control Device:		ь.	Operating Principles:	
	c.	Efficiency:1		d.	Capital Cost:	
	e .	Useful Life:		f.	Operating Cost:	
	· 9 ·	Energy: 2		ħ.	Maintenance Cost:	
	i.	Availability of construction *	aterial	ls an	d process chemicals:	
:	j.	Applicability to manufacturing	proces	808:		
	k .	Ability to construct with contwithin proposed levels:	rol de	vice	, install in available space, and	operate
	2.					
	a .	Control Device:		b.	Operating Principles:	
	c.	Efficiency:1		d.	Capital Cost:	
	.e.	Useful Life:		f.	Operating Coat:	
	g.	Energy: 2		h.	Maintenance Cost:	
	i.	Availability of construction m	aterial	s an	d process chemicals:	
1 _{Ex}	plai	n method of determining efficie to be reported in units of ele	ncy. ctrical	Pow	er – KWH design rate.	
	· r-	- 17 1 202(1)				
		m 17-1.202(1) ve November 30, 1982	Page	9 pf		
	٠.٠					

Applicability to manufacturing processes: Ability to construct with control device, install in available apace, and operate within proposed levels: 3. Control Device: Operating Principles: B. Efficiency: 1 Capital Cost: c. Useful Life: Operating Cost: Energy: 2 Maintenance Cost: α. Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate Ł. within proposed levels: 4. Operating Principles: Control Device: Efficiency: 1 Capital Costs: Operating Cost: Useful Life: ·f. Energy: 2 h. Waintenance Cost: Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: Describe the control technology selected: Control Device: Efficiency: 1 2. Useful Life: Capital Coat: Energy: 2 5. Operating Cost: Manufacturer: 7. Maintenance Cost: ₿. Other locations where employed on similar processes: a. (1) Company: (2) Mailing Address: (3) City: (4) State: $\frac{1}{2}$ Explain method of determining efficiency. $^{
m Z}$ Energy to be reported in units of electrical power – KWH design rate. DER Form 17-1.202(1) Æffective November 30, 1982 Page 10 of 12

(5) Environmental Manager:				
(6) Telephone No.:				
(7) Emissions: 1				
Contaminant			Rate or Conce	ntration
-				
(8) Process Rate:1				
b. (1) Company:				
(2) Mailing Address:				
(3) City:		(4) State:		•
(5) Environmental Manager:		•		
(6) Telephone No.:		•		
(7) Emissions: 1				
Conteminant			Rate or Conce	ntration
(B) Process Rate: 1				
10. Resson for aelection and	d deacription	of systems:		
Applicant must provide this infavailable, applicant must state			Should this	information not be
SECTION VII -	PREVENTION OF	SIGNIFICANT	DETERIORATION	
A. Company Monitored Data				
lno. sites	TSP	()	502*	Wind spd/dir
Period of Monitoring	month da	/ to	month day	year
Other data recorded				
Attach all data or statistics	il summaries t	o this appli	cation.	
*Specify bubbler (B) or continuou	ıs (C).			
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Effective November 30, 1982	Page 1	1 of 12		.*

1.4

	2. Instrumentation, Fleid and Laboratory	•
	a. Was instrumentation EPA referenced or i	ts equivalent? [] Yes [] No
	b. Was instrumentation calibrated in accor	dance with Department procedures?
	[] Yes [] No [] Unknown	
•	. Meteorological Data Used for Air Quality Mo	deling
	1Year(s) of data from/ / month day	year month day year
	2. Surface data obtained from (location)	
		from (location)
		d from (location)
	Computer Models Used	·
	1.	Modified? If yes, attach description.
		Modified? If yes, attach description.
		Modified? If yes, attach description.
		Modified? If yes, attach description.
	Attach copies of all final model runs showing ciple output tables.	
	Applicants Maximum Allowable Emission Date	
	Pollutant Emission Rate	
	TSP	grams/sec
	502	•
	Emission Data Used in Modeling	
	Attach list of emission sources. Emission d point source (on NEDS point number), UTM coand normal operating time.	ata required is source name, description of ordinates, stack deta, allowable emissions,
	Attach all other information supportive to t	he PSD review.
÷	Discuss the social and economic impact of the ble technologies (i.e., jobs, payroll, prassessment of the environmental impact of the	oduction, taxes, energy, etc.). Include

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

Attachment #1

A. Calculation of Utilization Rates and Percent Contaminants

Polyester gelcoats and styrene can be considered as two part systems containing essentially no VOC since the material hardens via a chemical reaction rather than by drying. Polyvinyl alcohol is an essentially non-volatile material used to coat fiberglass molds to prevent lay-up from sticking and it too contains essentially no VOC.

The calculation of the percent weight of contaminants in laquer based primers and sealers proceeds as follows:

AP-42 4.2.2.1-2 gives a percent by volume for particulates (solids) in laquer of 26.1% and a density of 7.9 lbs/gal.

1 gal of laquer weighs 7.9 lbs, 4.43 lbs of which is solvent, therefore, $7.9 - 4.43 = \text{weight of solids} = 3.47 lbs, percent by weight of solids = <math>(3.47 \text{ lbs}) - (7.9 \text{ lbs}) \times 100 = 43.9\%$.

Type of Coating	Approx. Weekly Usage	(lbs/gal)	(lbs/{hr.)
polyester gelcoat	2. gal	8.0	0.4
laquer based primers polyvinyl alcohol	0.5 gal	7.9	0.1
	0.5 gal	7.26	0.1
styrene (thinner)	0.1 gal	7.52	0.02
acetone (thinner)	0.1 gal	6.59	0.02

B. Calculation of Potential and Actual Emissions for VOC

VOC Emissions: the sources of VOC from this booth come from the thinning solvent acetone and the solvent component of the laquer based primers. All of the acetone used will be emitted as VOC, and the VOC emissions from the laquer based primers can be calculated as follows:

AP-42 4.2.2.1-2 states that laquers are typically 26.1% solids by volume or 73.9% solvents by volume. It has been demonstrated previously in this attachment that this equates to 43.9% by weight solids and 56.1% by weight solvents.

(Laquer utilization rate) (% by weight solvents) = solvent emission (0.1) lbs/hr.) (0.561) = 0.06 lbs/hr. solvents emitted from laquer based primers (0.06 lbs/hr.) (8 hrs/day) (5 days/wk.) (52 wks./yr.) = 124.8 lbs/yr. = 0.06 T/yr.

VOC emissions rate for acetone = utilization rate for acetone (0.% lbs/hr.) (8 hrs/day) (5 days/wk.) (52 wks/yr)

= 41.6 lbs/yr.

= 0.02T/yr.

Emissions for VOC September 16, 1983 Page Two

Total VOC Emissions = (portion from laquer) + (Portion from acetone) =
$$(124.8 lbs/yr) + (41.6 lbs/yr) = 166.4 lbs/yr$$
. = $0.08 lT/yr$.

C. Calculation of Actual and Potential Emissions for Particulate

Material	% Solids (by wt.)	Utilization Rate (1bs/hr.)
polyester gelcoat	100	0.4.
polyvinyl alcohol	100	0.1
styrene	100	0.02
laquer based primers	43.9	0.1
acetone	0	0.02

The types of materials sprayed in this booth vary from flat sheets to multi-faceted ornate facade parts. Generally they can be considered to be flat type surfaces for overspray consideration, with an overspray rate of 50% (AP-40 pp 861).

The particulate emission calculation procedes as follows:

The actual emissions take into account a filter efficiency of 80% for laquers and 95% for two part high particulate coating systems (as quoted from the manufacturer)

Sample calculation for laquer based primers:

(Potential Emissions) (1-filter efficiency) = actual emissions (45.6 lbs/yr.) (3.20) = 9.1 lbs/yr. = 0.005 T/yr.

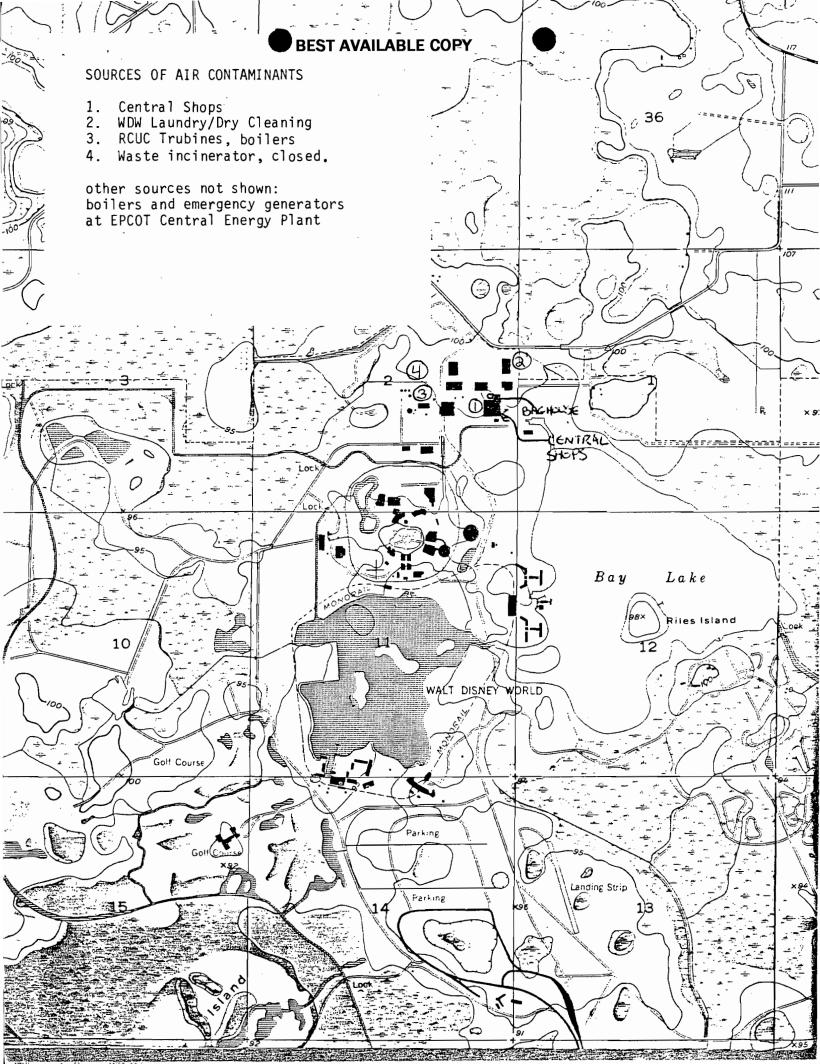
Material	Actual Emissions	<u>Potential Emissions</u>
polyester gelcoat laquer based primers polyvinyl alcohol styrene acetone Total:	20.8 lbs/yr. 9.1 lbs/yr. 5.2 lbs/yr. 1.0 lbs/yr. 0 36.1 lbs/yr. 0.02 T/yr.	416 lbs/yr. 45.6 lbs/yr. 104 lbs/yr. 20.8 lbs/yr. 0 586.4 lbs/yr. 0.29 T/yr.

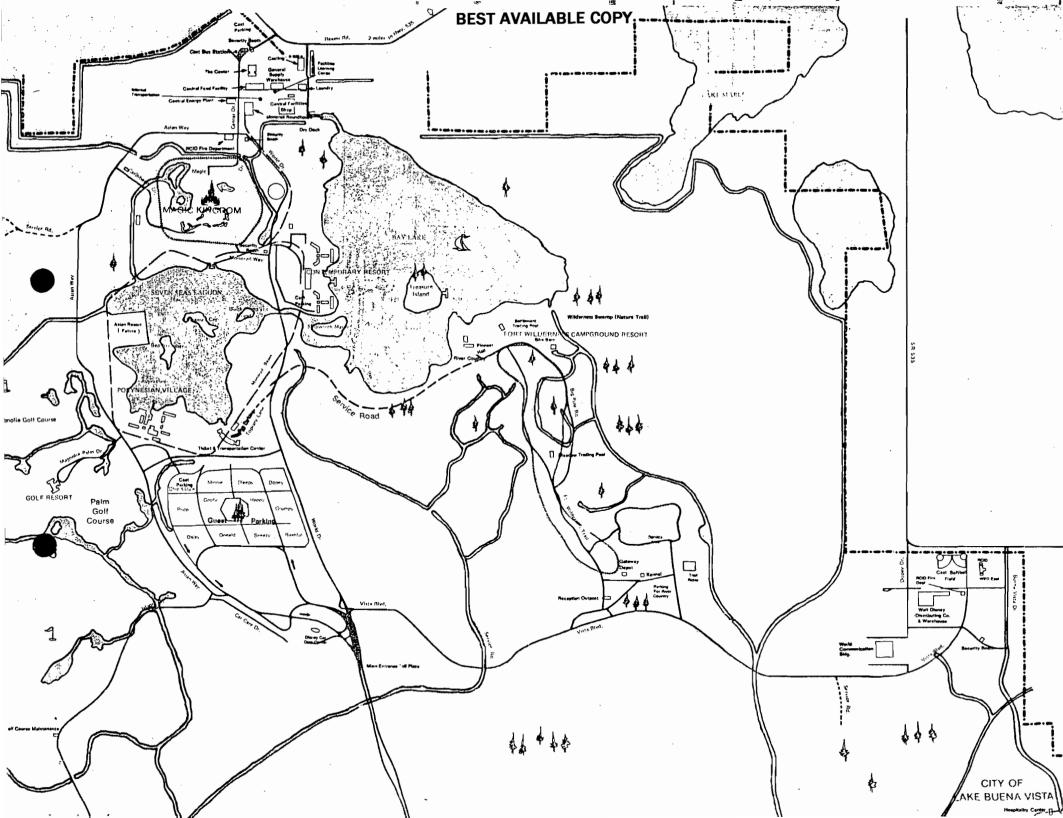
Attachment #2

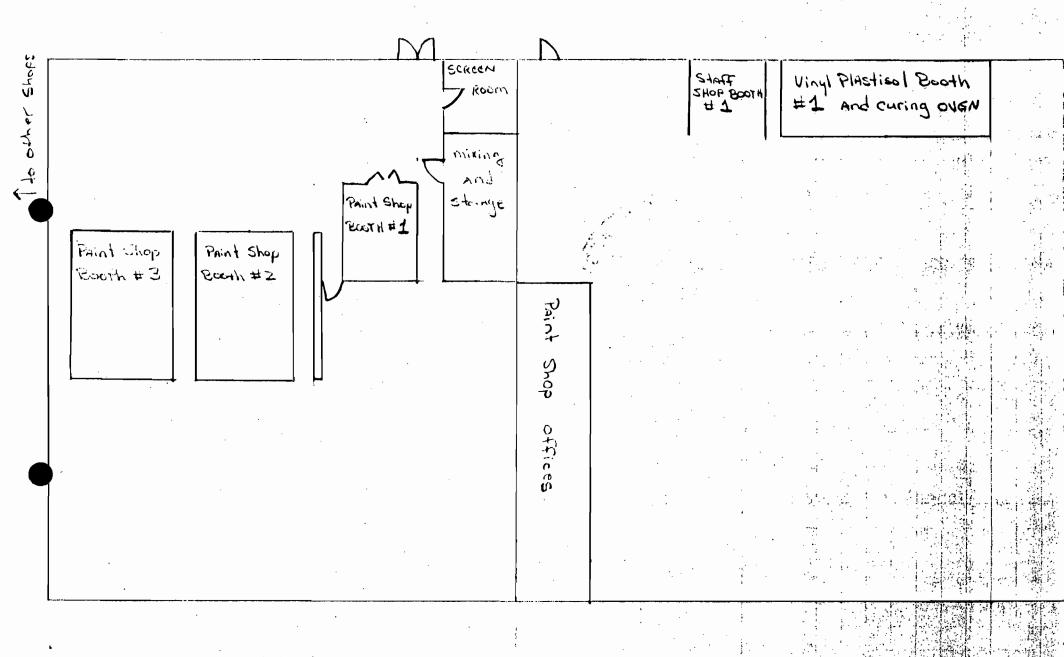
Flow Diagram

AHAchment

Attachment #3







SKETCH OF FACILITY LAYOUT, not to SCALE



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STATE OF FLORIDA

LC 48- 7583 7

DEPARTMENT OF ENVIRONMENTAL REGULATION

ST. JOHNS RIVER DISTRICT

3319 MAGUI FE BOUL ORLANDO, FLORIDA 32803 SEP 2 2 1983



BOB GRAHA GOVERNOR METORIA J. TECHINKET ALEX SENKEVICH

OCT 6 1983

SOURCE

BAOM APPLIC	ATION TO OPERATE/CONSTRUCT AIR	POLYMAN SOURCES
SOURCE TYPE: Spray Boot	ch [] New	1 [] EX
APPLICATION TYPE: [X] C	onstruction [] Operation [Modification **
COMPANY NAME: WALT DISNE	Y WORLD Co., Inc.	COUNTY: Orange
•	ission point source(s) addresse Scrubber; Peaking Unit No. 2, G	ed in this application (i.e. Lime NSA Staff Shop Gas Fired) <u>Spray Booth #2</u>
SOURCE LOCATION: Street	Facilities Way	City Bay Lake
UTM: 1	East 443586	North 314436
Latitud	de <u>28</u> ° <u>25</u> ' <u>32</u> "N	Longitude 81 ° 34 ' 36 ''W

APPLICANT NAME AND TITLE: Edward B. Crowell, V.P. Facilities Division

APPLICANT ADDRESS: P. O. Box 40 Lake Buena Vista, FL

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

APPLICANT

I am the undersigned owner or authorized representative* of WALT DISNEY WORLD Co.

I certify that the statements made in this application for a Construction permit are true, correct and complete to the best of my knowledge and belief. Further I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. 1 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 permitte establishment.

*Attach letter of authorization

Signed:

Edward B. Crowell, V.P. Facilities Division Name and Title (Please Type)

Telephone No. (305) 823-7700 Date:

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 hav: 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

 $^{
m I}$ See Florida Administrative Code Rule 17-2.100(57) and (104)

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	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 Name (Please Type).
	TED W, MEKIM
	Decdy Cocal Hiliting Co
1	Company Name (Please Type)
,	PO. BOX 46 Lake Bhena UISTA 744
0	orida Registration No. 25555 Date: 9/2/8 Telephone No. 305-824-49
	SECTION II: GENERAL PROJECT INFORMATION
	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.
	Construction of built-in spray booth with a new york blower model #S48-1 rated at
	29,000 CFM for spray coating fiberglass molds and objects with polyester resin
	system, laquer based primers, and polyvinyl alchohol
	Schedule of project covered in this application (Construction Permit Application Only)
	Start of Construction existing booth Completion of Construction
	EXISTING DOUGH COMPLETED OF COMPLETED OF
	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.)
	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
	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
	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
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	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.)
-	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.)

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	,	
	this is a new source or major modification, answer the following quests or No)	tions.
•	Is this source in a non-attainment area for a particular pollutant?	yes
	a. If yes, has "offset" been applied?	<u>no</u>
	b. If yes, has "Lowest Achievable Emission Rate" been applied?	no
	c. If yes, list non-attainment pollutants. VOC (ozone)	
	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 source?	no
0	"Reasonably Available Control Technology" (RACT) requirements apply this source?	

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.

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

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

	Conteminants		Utilization	
Description	Type	% Wt	Rate - lbs/hr	Relate to Flow Disgram
Polyester gelcoat	VOC/Partic	0/100	3.6	
laquer based primer	VOC/Partic	56/44	0.9	
polyvinyl alcohol	VOC/Partic	0/100	0.8	
shyrene (thinner)	VOC/Partic	0/100	0.2	
acetone (thinner)	VOC/Partic	100/0	0.1	

•	Ріосевв	Rate,	11	applicable:	(See	Section	٧,	Item	1)	,
---	---------	-------	----	-------------	------	---------	----	------	----	---

1.	Intel	Process	Input Rate	(1ho/ho).
	incal	1 100088	TUDOL VACE	(108/nr/i

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

Name of	Emiss	ionl	Allowed ² Emission Rate per	Allowable ³	Potent		Relate to Flow
Contaminant	Maximum lbs/hr	Actual T/yr	Rule 17_2	.lbs/hr	lbs/yr	T/yr	Diegram
VOC	0.61	0.63			1258	0.63	
Particulate	0.15	0.16			200	2,6	
					_	_	

See Section V, Item 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.

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

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Product Weight (lbs/hr):

D: CONCLUI DOTICOD: (300 30002011 1: 100m -	tion V, Item 4)	Section	(See	Devices:	Control	D.
---	-----------------	---------	------	----------	---------	----

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 Paint Arrestor	Particulate	80% for laquer	s	Mfg. Spec.
type filter model		95% for 2part	sys.	Mfg. Spec.
29-893 filter				
Bank dimensions:				
13,3 ft x 25 ft				
or 333 ft.2				

E. Fuels

	Consum	otion*	
Type (Be Specific)	avg/hr	max./hr	Maximum Heat Input (MMBTU/hr)
 	-		

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

Fuel Analysis:			
Percent Sulfur:	<u> </u>	Percent Ash:	
Density:	lbs/gal	Typical Percent Nitrogen:	
Heat Capacity:	BTU/16		BTU/ga)

		•							
				•			•	 	
1011	1 00 0 1	COUCSETUBULE	(MITTELL		Causo	9 7 7	politicion,.		

-	 applicable.					£ 1		c		L L I
•	 WINDITICEDIA.	THUTCHE	LIIE	Dercenc	0.	1067	4560		apace	1100 6 2 1100

Ann	ual Averaç	je			H	eximo				—
·G.	Andicate	liquid d	or solid	waetes	generated	and	method	o f	disposal.	

			·	
 	 •			
	-			

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					tack Diamete		
Gas Flow Ra	te:	ACFM_2	9,000	_DSCFM &	aa Exit Temp	erature: a	mbient•
Water Vapor @ 2" W.C. s		ssure			elocity:		
· ·					<u> </u>		
Type of Waste					I Type IV) (Patholog- ical)		Type VI (Solid By-prod.
Actual lb/hr Inciner- ated							
Uncon- trolled (lbs/hr)							
anufacturer					<u> </u>		wks/yr
·							
		Valume (ft) ³	Heat R	elesse /hr)	Fuel Type	BTU/hr	Temperature (°F)
	mber	_					
Primary Cha							
	hamber					Stack To	emp
Secondary C		ft. :	Stack Dias	ster:			
Secondary C	:						FF
Secondary C tack Height as Flow Rat If 50 or mo	e:	er day des:	ACFM	ity, subm	DSCFM*	felocity: _	
Secondary C tack Height as Flow Rat If 50 or ac ard cubic f ype of poll	e: ore tone poot dry go	er day des as correcto trol device	ACFMign capaci and to 50%	ity, subm excess a	DSCFM*	valocity:	Figrains per star

Brief description (of ope	rating ch	aracte	ristic	8 of	control	.devi	es:			
											<u>-</u> -
										-	<u> </u>
Ultimate disposal cash, etc.):	of any	effluent	other	than	that	emitted	from	the st	ack	(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 supplementa 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 (l-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.

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Effective November 30, 1982

		· ·
9.	The appropriate application fee in accordance payable to the Department of Enviro	rdance with Rule 17-4.05. The check should be nmental Regulation.
10.		t, attach a Certificate of Completion of Con- was constructed as shown in the construction
	SECTION VI: BEST AVAI	LABLE CONTROL TECHNOLOGY
A •	Are standards of performance for new sta applicable to the source?	ationary sources pursuant to 40 C.F.R. Part 60
	[] Yes [] No	
	Contaminant	Rate or Concentration
		· · · · · · · · · · · · · · · · · · ·
•		
	· · · · · · · · · · · · · · · · · · ·	<u></u>
В.	Has EPA declared the best available con yes, attach copy)	trol tachnology for this class of sources (If
	[] Yes [] No	
	Contaminant	Rate or Concentration
c.	What emission levels do you propose as b	est available control technology?
	Contaminant	Rate or Concentration
	Describe the evidence control and the evidence	
υ.	Describe the existing control and treatments	
		2. Operating Principles:
	3. Efficiency: *	4. Capital Costs:
#Exp	olain method of determining	
	Form 17-1.202(1) ective November 30, 1982 Page	B of 12
		· ·

To be a state below

	5.	Useful Life:	٠.	6.	Operating Costs:	
	7.	Energy:		8.	Maintenance Cost:	
	9.	Emiasions:				
		Conteminant			Rate or Concentration	
_						_
						_
		· · · · · · · · · · · · · · · · · · ·			··-	_
	10.	Stack Parameters				
	٠.	Height:	ft.	b.	Diameter: ft	
	c.	Flow Rate:	AC FM	d.	Temperature: or	•
	•.	Velocity:	FPS			
E.		cribe the control and treatment additional pages if necessary).	techn	olog	y available (As many types as applicabl	•
•	1.	·				
	8.	Control Device:		ь.	Operating Principles:	
	c.	Efficiency:1		d.	Capital Cost:	
	e.	Useful Life:		f.	Operating Cost:	
	g.	Energy: 2		h.	Maintenanca Cost:	
	i .	Availability of construction ma	terial	.8 a n	d process chemicals:	
: .	j٠	Applicability to manufacturing	proces	808:		
· · · · · · · · · · · · · · · · · · ·	k.	Ability to construct with contradition proposed levels:	rol de	vice	, install in available space, and opera	t e
	2.					
		Control Device:		b.	Operating Principles:	
	c.	Efficiency:1		d.	Capital Cost:	
	e	Useful Life:		ſ.	Operating Cost:	
	q.	Energy: 2		h.	Maintenance Cost:	
		Availability of construction as	terial	s an	d procese chemicals:	
l _E ,		in method of determining efficien				
:2 _E	nergy	to be reported in units of elec	trical	boa	er – KWH design rate.	
		rm 17-1.202(1) ive November 30, 1982	Page	9 of	12	
					•	

		·
j.	Applicability to manufacturing pro	0008808:
k.	Ability to construct with control within proposed levels:	l device, install in svailable space, and operst
3.		•
8.	Control Device:	b. Operating Principles:
c.	Efficiency: 1	d. Capital Cost:
٠.	Useful Life:	f. Operating Cost:
g.	Energy: ²	h. Maintenance Cost:
i.	Availability of construction mater	rials and process chemicals:
j.	Applicability to manufacturing pro	ocesses:
k.	Ability to construct with control within proposed levels:	device, install in available space, and operat
4.	: '	
a.	Control Device:	b. Operating Principles:
c.	Efficiency:1	d. Capital Costs:
٠.	Useful Life:	f. Operating Cost:
g.	Energy: 2	h. Maintenance Cost:
i.	Availability of construction mater	riala and process chemicals:
j.	Applicability to manufacturing pro)C888e8:
	Ability to construct with control within proposed levels:	device, install in available apace, and operate
Desc	cribe the control technology select	ed:
1.	Control Device:	2. Efficiency: 1
3.	Capital Cost:	4. Useful Life:
5.	Operating Cost:	6. Energy: ²
7.	Maintenance Cost:	8. Manufacturer:
9.	Other locations where employed on	similar processes:
a.	(1) Company:	
(2)	Mailing Address:	
(3)	City:	(4) State:
plain	n method of determining efficiency. to be reported in units of electri	cal power - KWH design rate.
fectiv	1 17-1.202(1) To November 30, 1982 Page	ige 10 of 12

(6) Talanhara Na			
(6) Telephone No.:			
(7) Emissions: 1			
Contaminant		Rate or Concentration	
(8) Process Rate: 1			
b. (1) Company:		•	
(2) Mailing Address:			-
(3) City:	(4) State:		
(5) Environmental Manager:	(4) 314101		
·			
(6) Telephone No.: (7) Emissions: ¹			
		Rate or Concentration	
Contaminant		Rate or Concentration	
·			
		·	
(2)		·	
(8) Process Rate: 1			
(8) Process Rate: 1 10. Reason for selection and descript	ion of systems:		
•	when available.	Should this information no	t b
10. Reason for selection and descript Applicant must provide this information	when available. n(s) why.		t b
10. Reason for selection and descript Applicant must provide this information available, applicant must state the reaso	when available. n(s) why.		t b
10. Reason for selection and descript Applicant must provide this information svailable, applicant must state the reaso SECTION VII - PREVENTION	when available. n(s) why. N OF SIGNIFICANT	DETERIORATION	
10. Reason for selection and descript Applicant must provide this information svailable, applicant must state the reaso SECTION VII - PREVENTION. A. Company Monitored Data 1	when sveilable. n(s) why. N OF SIGNIFICANT	DETERIORATION	
10. Reason for selection and descript Applicant must provide this information svailable, applicant must state the reaso SECTION VII - PREVENTION. A. Company Monitored Data 1	when sveilable. n(s) why. N OF SIGNIFICANT	DETERIGRATION S02* Wind apd/di	
10. Reason for selection and descript Applicant must provide this information svailable, applicant must state the reaso SECTION VII - PREVENTION A. Company Monitored Data 1	when available. n(s) why. N OF SIGNIFICANT P to day year	DETERIORATION S02+ Wind spd/di / / month day year	
10. Reason for selection and descript Applicant must provide this information svailable, applicant must state the reaso SECTION VII - PREVENTION A. Company Monitored Data 1	when available. n(s) why. N OF SIGNIFICANT P to day year	DETERIORATION S02+ Wind spd/di / / month day year	
10. Reason for selection and descript Applicant must provide this information svailable, applicant must state the reaso SECTION VII - PREVENTION A. Company Monitored Data 1	when available. n(s) why. N OF SIGNIFICANT P () / / to day year es to this appli	DETERIORATION S02+ Wind spd/di / / month day year	

2.	Instrumentation, Field and Laboratory
a.	Was instrumentation EPA referenced or its equivalent? [] Yes [] No
ь.	Was instrumentation calibrated in accordance with Department procedures?
	[] Yes [] No [] Unknown
Het	eorological Data Used for Air Quality Modeling
1.	Year(s) of data from / / to // month day year
2.	Surface data obtained from (location)
3.	Upper sir (mixing height) data obtained from (location)
4.	Stability wind rose (STAR) data obtained from (location)
Com	outer 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.
Att cip	ch copies of all final model runs showing input data, receptor locations, and prin- e output tables.
App.	icants Maximum Allowable Emission Data
Pol.	utant Emission Rate
1	SP grams/sec
9	O ² grams/sec
Emie	sion Data Used in Modeling
poin	ch list of amission sources. Emission data required is source name, description of t source (on NEDS point numbsr), UTM coordinates, stack data, allowable emissions, normal operating time.

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ε.

D.

- 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 evailable control technology.

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Attachment #1

A. Calculation of Utilization Rates and Percent Contaminants

Polyester gelcoats and styrene can be considered as two part systems containing essentially no VOC since the material hardens via a chemical reaction rather than by drying. Polyvinyl alcohol is an essentially non-volatile material used to coat fiberglass molds to prevent lay-up from sticking and it too contains essentially no VOC.

The calculation of the percent weight of contaminants in laquer based primers and sealers proceeds as follows:

AP-42 4.2.2.1-2 gives a percent by volume for particulates (solids) in laquer of 26.1% and a density of 7.9 lbs/gal.

1 gal of laquer weighs 7.9 lbs, 4.43 lbs of which is solvent, therefore, 7.9 - 4.43 = weight of solids = 3.47 lbs.percent by weight of solids = $(3.47 \text{ lbs}) \div (7.9 \text{ lbs}) \times 100 = 43.9\%$.

Type of Coating	Approx. Weekly Usage	(lbs/gal)	(1bs/set)
polyester gelcoat	18 gal	8.0	3. b
laquer based primers		7.9	0.9
polyvinyl alcohol	4.5 gal	7.26	0.8
styrene (thinner)	0.9 gal	7.52	0.2
acetone (thinner)	0.9 gal	6.59	0.1

B. Calculation of Potential and Actual Emissions for VOC

VOC Emissions: the sources of VOC from this booth come from the thinning solvent acetone and the solvent component of the laquer based primers. All of the acetone used will be emitted as VOC, and the VOC emissions from the laquer based primers can be calculated as follows:

AP-42 4.2.2.1-2 states that laquers are typically 26.1% solids by volume or 73.9% solvents by volume. It has been demonstrated previously in this attachment that this equates to 43.9% by weight solids and 56.1% by weight solvents.

(Laquer utilization rate) (% by weight solvents) = solvent emission (0.9 lbs/hr.) (0.561) = 0.50 lbs/hr. solvents emitted from laquer based primers (0.50 lbs/hr.) (8 hrs/day) (5 days/wk.) (52 wks./yr.) = 1050 lbs/yr. = 0.52 T/yr.

VOC emissions rate for acetone = utilization rate for acetone (0.1 lbs/hr.) (8 hrs/day) (5 days/wk.) (52 wks/yr) = 208 lbs/yr. = 0.10 T/yr.

Emissions for VOC September 16, 1983 Page Two

Total VOC Emissions = (portion from laquer) + (Portion from acetone) = (1050 lbs/yr) + (208 lbs/yr) = 1258 lbs/yr. = 0.63 T/yr.

C. Calculation of Actual and Potential Emissions for Particulate

<u>Material</u>	<pre>% Solids (by wt.)</pre>	Utilization Rate (lbs/hr.)
polyester gelcoat	100	3.6
polyvinyl alcohol	100	0.8
styrene	100	0.2
laquer based primers	43.9	0.9
acetone	. 0	0.1

The types of materials sprayed in this booth vary from flat sheets to multi-faceted ornate facade parts. Generally they can be considered to be flat type surfaces for overspray consideration, with an overspray rate of 50% (AP-40 pp 861).

The particulate emission calculation procedes as follows:

(Utilization rate) (fraction of solids) (fraction of overspray) = (potential emissions)

Sample calculation for laquer based primers:
(0.9 lbs/\delta') (.439) (.50) = 0.20 lbs/hr.
(0.20 lbs/hr.) (8 hr/day) (5 day/wk) (52 wk/yr.) = 416 lbs/yr.
= 0.21 T/yr.
potential emissions

The actual emissions take into account a filter efficiency of 80% for laquers and 95% for two part high particulate coating systems (as quoted from the manufacturer)

Sample calculation for daquer based primers:

(Potential Emissions) (1-filter efficiency) = actual emissions (416 lbs/yr.) (0220) = 83.2 lbs/yr. = 0.04 T/yr.

Material	Actual Emissions	Potential Emissions
polyester gelcoat laquer based primers polyvinyl alcohol styrene acetone Total:	187 lbs/yr. 83.2 lbs/yr. 41.6 lbs/yr. 10.4 lbs/yr. 0 322.2 lbs/yr. 0.16 T/yr.	3744 lbs/yr. 416 lbs/yr. 832 lbs/yr. 208 lbs/yr. 0 5200 lbs/yr. 2.6 T/yr.

Attachment #2

Attachment 2 - Flow Diagran

WaterWASh Plasticol Booth #1

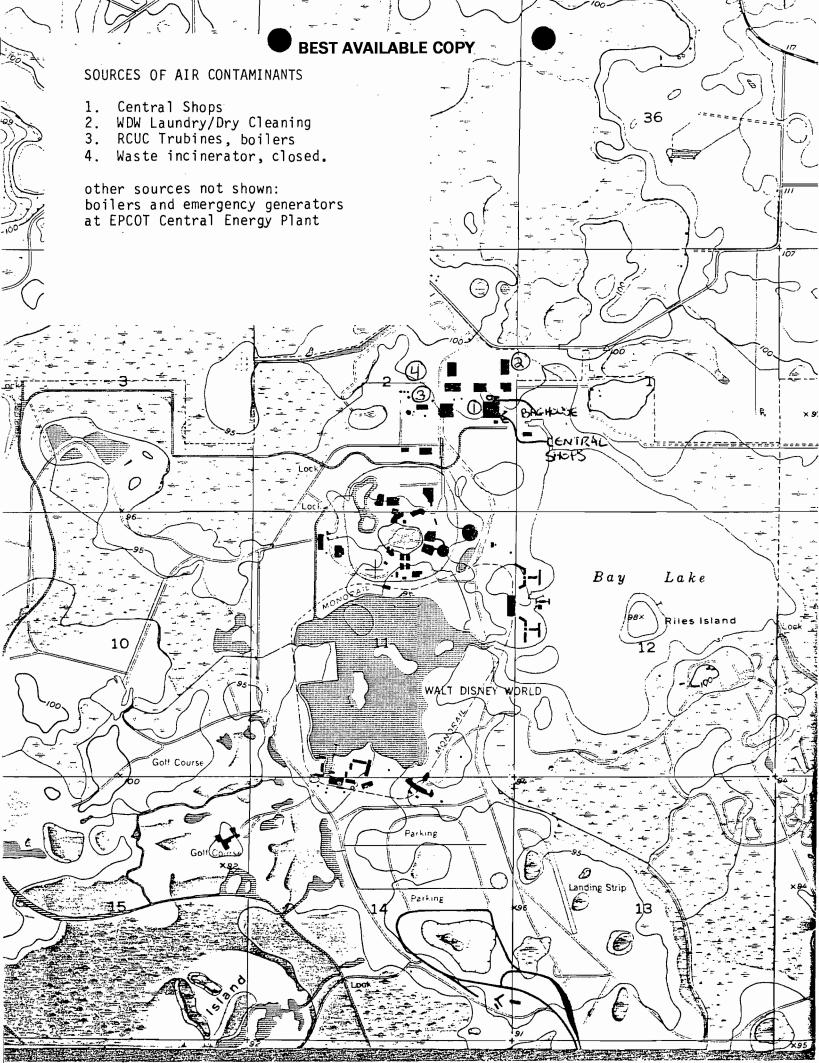
STAFF SHOP SPRAY BOOTH # 2

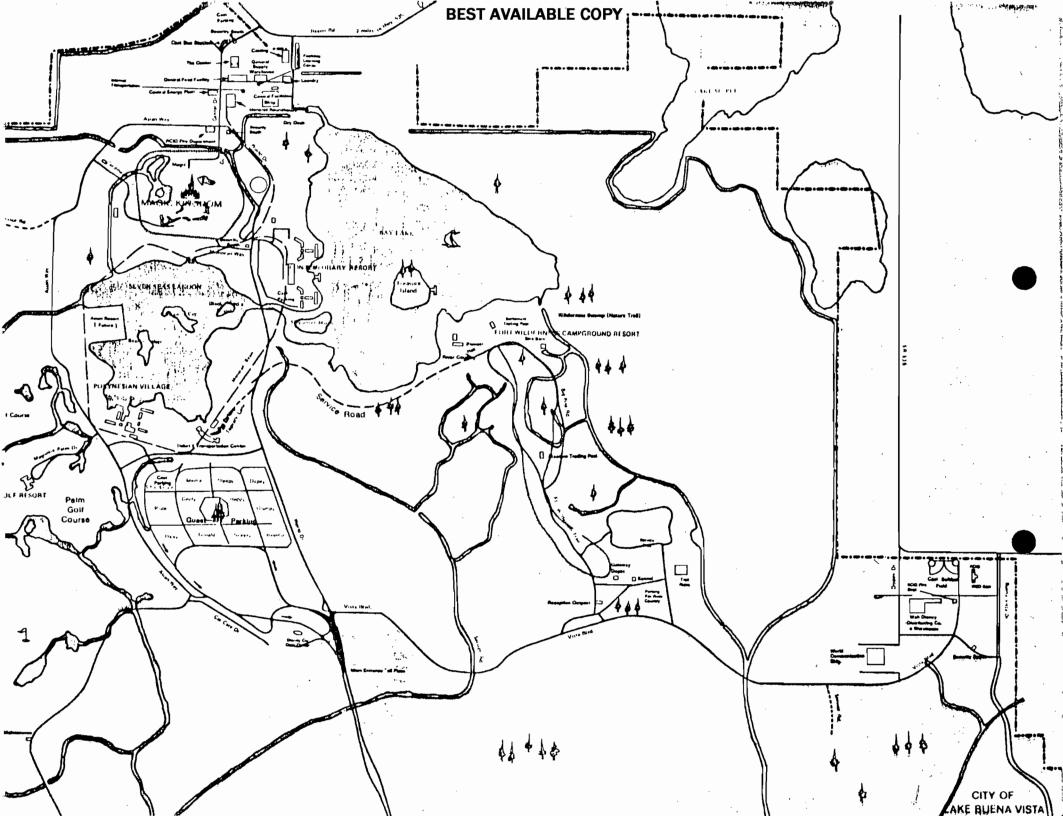
STAFF SHOP

Attachment #2 location of STAFF SHOP SPRAY BOOTH #2

LARGE BAY DOORS

Attachment #3







STATE OF FLORIDA

AC48-75838

DEPARTMENT_OF ENVIRONMENTAL REGULATION

ST. JOHNS RIVER DISTRICT

3319 MASULBE BOULE AND
SUITE 232
ORLANDO, FLORIDA 328036

SEP2 2 1983
SEP2 2 1983
SAINT JOHNS
SAINT DISTRICT



BOB GRAHAM-GOVERNOR

J. TSCHINKEL
SECRETARY
SENKEVICH
THE MANAGER

BAOM

SAINT JOHN TO OPERATE/CONSTRUCT AIR POLLUTINGSOURCES

CE TYPE: Water Wash Spray Booth and Curing[] New1 [X] Existing Oven APPLICATION TYPE: [X] Construction [] Operation [] Modification COMPANY NAME: WALT DISNEY WORLD Co., Inc. county: Orange Identify the specific emission point source(s) addressed in this application (i.e. Lime Water Wash plastisol Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Booth #1 SOURCE LOCATION: Street Facilities Way City Bay Lake UTM: East 443566 3144333 North

APPLICANT NAME AND TITLE: Edward B. Crowell, V.P. Facilities Division

APPLICANT ADDRESS: P. O. Box 40, Lake Buena Vista, FL 32830

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of WALT DISNEY WORLD Co., Inc.

I certify that the statements made in this application for a <u>Construction</u> 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. 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 permittenestablishment.

*Attach letter of authorization

Philip N. Smith, Vice President-Legal
Name and Title (Please Type)

Date: 9/21/83 Telephone No. 828-1735

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 besigned/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)

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STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

Nº 75014

DEPARTMENT OF ENVIRONMENTAL REGULATION
RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE
Received from Walt Dioney World Co. Date Sixt 22, 1983
Address P.O. Box 40, Lh. Buera Vista Dollars \$ 400.00
Applicant Name & Address
Source of Revenue
K Lullock
BA 71

46.

	the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable atatutes 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 Let II Man
	pollution sources. Signed Fell Million TED W. MEKIM
	Name (Please Type)
	Recay Creek Utilities Co.
	Company Name (Please Type)
•	PO BOX 40 Lake BURNA VISTA, TLA Mailing Address (Please Type)
	rids Registration No.2555 Date: 9/21/83 Telephone No.305-824-49
0	rida Registration No. 2333 Date: 1/2//83 Telephone No. 263 OCT 17
	SECTION II: GENERAL PROJECT INFORMATION
	Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.
	Installation of Binks Manufacturing water wash spray booth (no pump model) and curing
	oven to be used for coating various objects with hot melt and vinyl plastisol, object
	to be coated are typically fiberglass animated show components, see attachment #1
	др d obdominent #2
	Schedule of project covered in this application (Construction Permit Application Only)
	Start of Construction existing booth Completion of Construction
	Costs of pollution control system(a): (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.)
	Indicate any previous DER permits, orders and notices associated with the emission
	point, including permit issuance and expiration dates. NONE
	Permit applications called in by Chuck Collins of Florida DER to be submitted by
	point, including permit issuance and expiration dates. NONE

	·	
f this is a new source or major modification, answer th	e following question	8.
. Is this source in a non-attainment area for a partic	ular pollutant? <u>y</u>	es
a. If yes, has "offset" been applied?	<u>r</u>	10
b. If yes, has "Lowest Achievable Emission Rate" be	en applied?	10
c. If yes, list non-attainment pollutants.	VOC (ozor	ıe)
. Does best available control technology (BACT) apply If yes, see Section VI.	to this source?	10
. Does the State "Prevention of Significant Deterioria requirement apply to this source? If yea, see Secti	tion" (PSD) ons VI and VII	10
. Do "Standards of Performance for New Stationary Sour apply to this source?	ces" (NSPS) n	0 .
. Do "National Emission Standards for Hazardous Air Po (NESHAP) apply to this source?	11utants" n	0
o "Reasonably Available Control Technology" (RACT) requ o this source?	irements apply n	0
a. If yes, for what pollutants?	·	

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

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

-	Conte	inants	Utilization	
Description	Type	% Wt	Rate - lbs/hr	Relate to Flow Diagram
Hot melts and vinyl plastisols	particulate	100	6.9	
kerosene	voc	100	0.49	
			·	

ALOCE88	Rate,	if	applicable:	(See Secti	חם	٧,	Item	1)	N/A

l.	Total Process	Input Rate	(lbs/hr):_	·	

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

Name of	Emission	Allowed ² Emission Rate per	Allowable ³ Emission	Potent Emiss		Relate to Flow
Contaminant	Maximum Actual lbs/hr T/yr	Rule 17-2	lbe/hr	lbs/yr	I/yr	Diagram
VOC	0.49 0.51			1014	0.5	
particulate	0.07 0.07		·	7280	3.6	
						. '

 $^{^{}m l}$ See Section V, Item 2.

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Product Weight (lbs/hr):

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

Calculated from operating rate and applicable standard.

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

Name and Type (Model & Serial No.)	Conteminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Binks no pump	particulate	98%		mfg. spec.
dynaprecipitator				
water wash filter mode	1			
NPB-14*				

E. LOGIS/.	Ε.	N/F	Fuels
------------	----	-----	-------

*See attachment #1

	Consump	tion*	
Type (Be Specific)	avg/hr	max./hr	Maximum Heat Input (MMBTU/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/1b		BTU/ga
Other Fuel Contaminants (which	may cause air p	ollution):	<u>.</u>
F. If applicable, indicate the	e percent of fue	l used for space heating.	
Annual Average	Ma	ximum	•
G. Indicate liquid or solid wa	astes generated	and method of disposal.	

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ACFN 16,800 DSCFN Gas Exit Temperature:ambients. SECTION IV: INCINERATOR INFORMATION Type of	itack Heig	ht:	35	· · ·	ft.	rt	t.					
Type of Type 1 Type II Type III Type III Type III Type IV (Liq.& Gas ical) Actual lb/hr Incinerated (lbs/hr) Description of Waste otal Weight Incinerated (lbs/hr) proximate Number of Houre of Operation per day	se Flow R	ate:	ACFH_1	6,800	DSCFM	·						
Type of Type 0 Type I Type II Type III Type IV Type V Tater Vapor Content:		ambient		<u> </u>	Velocity:	47.2	FP	, S				
Maste (Plastica) (Rubbish) (Refuse) (Garbage) (Pathological) (Liq.& Gas (Solid By-prod.) Actual lb/hr			SECT	ION IV:	INCINERA	TOR INFORMATI	CON					
Design Capacity (lbe/hr) Design Capacity (lbe/hr) Design Capacity (lbe/hr) Design Capacity (lbe/hr) Design Capacity (lbe/hr) Design Capacity (lbe/hr) Design Capacity (lbe/hr) Design Capacity (lbe/hr) Design Capacity (lbe/hr) Design Capacity (lbe/hr) Design Capacity (lbe/hr) Design Capacity (lbe/hr) Design Capacity (lbe/hr) Design Capacity (lbe/hr) Design Capacity Design Cap	• • • •	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type I (Garbage	e) (Patholog-	(Liq.& Gas	(Solid By-prod.)	'			
bescription of Waste cotal Weight Incinerated (lbs/hr) Design Capacity (lbs/hr) coproxisate Number of Houre of Operation per day day/wk wks/yr confidence	lb/hr Inciner-											
Design Capacity (lbs/hr)	trolled											
Volume (ft) Heat Release Fuel Temperature (°F) Primary Chamber	anufacture	r	, ~			<u>:-</u> ,		·	_			
(ft) (BTU/hr) Type BTU/hr (°F) rimary Chamber econdary Chamber ack Height: ft. Stack Diamter: Stack Temp ### BTU/hr (°F) DSCFM* Value FF FF									_			
ack Height:ft. Stack Diamter: Stack Temp												
ack Height:ft. Stack Diamter:Stack Temp	rimary Ch	amber										
ACFM DSCFM* Valocity:FPS f 50 or more tons per day design capacity, submit the emissions rate in grains per stan- rd cubic foot dry gas corrected to 50% excess air. pe of pollution control device: [] Cyclone [] Wet Scrubber [] Afterburner	econdary	Chamber	* * * * * * * * * * * * * * * * * * * *									
f 50 or more tons per day design capacity, submit the emissions rate in grains per stan- rd cubic foot dry gas corrected to 50% excess air. pe of pollution control device: [] Cyclone [] Wet Scrubber [] Afterburner	ack Heigh	t:	ft. S	tack Diam	eter:		Stack T	emp	_			
rd cubic foot dry gas corrected to 50% excess air. pe of pollution control device: [] Cyclone [] Wet Scrubber [] Afterburner	s Flow Ra	te:		ACFH		DSCFM+	Valocity: _	FPS	5			
							iona rate i	n grains per stan-	•			
[] Other (specify)	pe of pol	lution conf	trol device	: [] [)	clone [] Wet Scrubb	ber [] Aft	terburner				
				[] 0	her (spe	cify)			_			

s Flow R	late:	ACFH_	3,000	DSCFM G	es Exit Tem	or	
ater Vapor Content:							•
<u>-</u>		SEC	ITOM TA: 1	LMCIMERAI	OR INFORMAT	104	
ype of Waste							Type VI s (Solid By-prod.)
ctual b/hr ciner- ated							
ncon-		٠.					
al Weigi		ted (lbs/h	r)				/hr)
criptional Weigh	ht Incinera a Number of	ted (lbs/h	r)	per day _			/hr)wks/yr
criptional Weight	ht Incinera e Number of	ted (lbs/h	r)	per day _	day		wks/yr
criptional Weight	ht Incinera e Number of	ted (lbs/h	r)	per day _	day	/wk	wks/yr
cription al Weight	ht Incinera e Number of	ted (lbs/h	r)	per day _	day	/wk	wks/yr
criptional Waigi	ht Incinera a Number of ar ructed	ted (lbs/h	r)Operation	per day _	No	/wk	Wks/yr
criptional Weigingximate ufacture Consti	ht Incinera a Number of ar ructed	ted (lbs/h	r)Operation	per day _	No	/wk	Wks/yr
cription al Weigh roximate ufacture constr	ht Incinera a Number of er ructed namber Chamber	ted (lbs/h Hours of Volume (ft)3	r) Operation Heat Re (BTU/	Model	No. Fue	l BTU/hr	Wks/yr
cription al Weigh roximat ufacture constr	namber Chamber	Volume (ft)	T) Operation Heat Re (BTU/	Model lease hr)	No. Fue.	l BTU/hr	Temperature (**F)
cription al Weigh roximate ufacture e Const:	namber Chamber ot:	Volume (ft)3	T) Operation Heat Re (BTU/	Model lease hr) ter:	No. Fue. Type DSCFM* t the emiss	BTU/hr Stack T	Temperature (**F)

											·			
timate h, etc.	disposs):	ıl of	any	efflu	ent	ather	than	that	emitted	from	the	stack	(scrubber	water
														-
		_					<u> </u>		-					

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 6D 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 sir-borne 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 $1/2^n \times 11^n$ plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

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- The appropriate application fee in accordance with Rule 17-4.05. The check should be made psyable 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

4.	Are standards of performance for new sta applicable to the source?	ationary sources pursuent to 40 C.F.R. Pert 60
	[] Yes [] No	
	Contaminant	Rate or Concentration
	·	
1.	Has EPA declared the best available con yes, attach copy)	trol technology for this class of sources (If
	[] Yes [] No	
	Conteminant	Rate or Concentration
-		
. •	What emission levels do you propose as be	est available control technology?
	Contaminant	Rate or Concentration

Control Device/System:

2. Operating Principles:

3. Efficiency: *

4. Capital Costs:

Explain method of determining

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	5.	Useful Life:	•	6.	Operating Costs:	
	7.	Energy:		8.	Maintenance Cost:	
	9.	Emissions:				
		Contaminant			Rate or Concentrati	on
	10	Charle Barranhara	· · · · · · · · · · · · · · · · · · ·			
		Stack Parameters			D	
	a.	Height:	ft.	ь.	Diameter:	ft.
	c.	Flow Rate:		a.	Temperature:	. º F.
	₽.	Velocity:	FPS			
Ε.		cribe the control and treatment sdditional pages if necessary)		olog	y available (As many types	as applicable,
	1.					
	8.	Control Device:		ь.	Operating Principles:	
	·c.	Efficiency:		d.	Capital Cost:	
	ŧ.	Useful Life:		f.	Operating Cost:	
•	9.	Energy: 2		h.	Maintenance Cost:	
	i.	Availability of construction m	ateria:	ls an	d process chemicals:	
	j.	Applicability to manufacturing	proces	ses:		
·•,	.k.	Ability to construct with cont within proposed levels:	rol de	vice	, install in available space	e, and operate
	2.			•		
	8.	Control Device:	÷	b.	Operating Principles:	
-	c.	Efficiency:1		·d.	Capital Cost:	
· ·, ·	· • ·	Useful Life:		f.	Operating Cost:	* .
***.	9 -	Energy: 2		h.	Maintenance Cost:	
	1.	Availability of construction m	ateria:	la an	d process chemicals:	
		n method of determining efficie to be reported in units of ele		l pow	er – KWH design rate.	
.:DE R	: For	m 17-1.202(1)	Page	0	12	

• •

j.	Applicability to manufacturing process	88.88	:				
k.	Ability to construct with control de within proposed levels:	vice	e, install in ava	ilable	space,	and	operate
3.							
a.	Control Device:	ь.	Operating Princ	iples:			
• с.	Efficiency: 1	d.	Capital Cost:				
8.	Useful Life:	f.	Operating Cost:				
9.	Energy: ²	h	Maintenance Cost	::			
i.	Availability of construction material	la ar	nd process chemic	als:			
j.	Applicability to manufacturing process	8 e 8 :					
k.	Ability to construct with control de within proposed levels:	vice	, install in ava	ilable	space,	and	operate
4.							
a.	Control Device:	ь.	Operating Princi	ples:			
с.	Efficiency: 1	đ.	Capital Costs:				•
е.	Useful Life:	·f.	Operating Cost:				
g.	Energy: 2	h.	Maintenance Cost	. 1			
i.	Availability of construction material	s an	nd process chemics	ls:			
, j .	Applicability to manufacturing proces	808:					
k.	Ability to construct with control de within proposed levels:	vice	, install in ava	ilable	space,	and	operate
. Des	cribe the control technology selected:						
1.	Control Device:		Efficiency:1				
3.	Capital Cost:	4.	Useful Life:				
5.	Operating Cost:	6.	Energy:2				
7.	Maintenance Cost:	8.	Hanufacturer:		.,		
9.	Other locations where employed on sim	ilar	processes:				
a.	(1) Company:						
(2)	Nailing Address:						
(3)		(4)	State:				
Explain Energy	n method of determining efficiency. to be reported in units of electrical	pow	er – KWH design r	ate.			٠.

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(5) Environmental Manager:	
(6) Telephone No.:	
(7) Emissions: 1	
Contaminant	Rate or Concentration
(8) Process Rate: 1	
b. (1) Company:	
(2) Mailing Address:	
(3) City:	(4) State:
(5) Environmental Manager:	
(6) Telephone No.:	
(7) Emissions:1	
Conteminant	Rate or Concentration
	:
	·
(8) Process Rate: 1	
10. Reason for selection and description	of systems:
Applicant must provide this information whe available, applicant must state the resson(s	
SECTION VII - PREVENTION O	F SIGNIFICANT DETERIORATION
A. Company Monitored Data	
	() SO ² * Wind spd/dir
Period of Monitoring / month d	year month day year
Other data recorded	
Attach all data or statistical summaries	to this application.
*Specify bubbler (8) or continuous (C).	
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2.	Instrumentation, Field and Laboratory
а.	Was instrumentation EPA referenced or its equivalent? [] Yes [] No
ь.	Was instrumentation calibrated in accordance with Department procedures?
	[] Yes [] No [] Unknown
Met	eorological Dats Used for Air Quality Modeling
1.	Year(s) of data from / / to // 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)
Comp	puter Models Used
ι.	Modified? If yes, attach description.
Ł.	Modified? If yes, attach description.
3.	Modified? If yes, attach description.
١.	Modified? If yes, attach description.
	ach copies of all final model runs showing input data, receptor locations, and prin- le output tables.
(pp]	licants Maximum Allowable Emission Deta
o 1 1	lutant Emission Rate
7	SP Grams/eec

. Emission Data Used in Modeling

502

В.

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.

- 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.

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Attachment #1

A. Calculation of Utilization Rates:

Vinyl plastisols and hot melts are used at a rate of approximately 30 gallons per week, operation hours and 8 hrs/day, 5 days/wk, 52 wks/yr.

Density of plastisols = 9.17 lbs/gal (based on a specific gravity of 1.1)

(30 gal/wk) (9.17 lbs/gal) = 275.1 lbs/wk $(275.1 \text{ lbs/wk}) \div (40 \text{ hrs/wk}) = 6.9 \text{ lbs/hr}.$

Kerosene is used as a thinner for these plastisols typically at 10% by volume or 3 gal/wk_density for kerosene 6.51 lbs/gal (based on a specific gravity of 0.780) (3 gal/wk) (6.51 lbs/gal) = 19.53 lbs/wk (19.53 lbs/wk) ÷ (40 hrs/wk) = 0.49 lbs/hr.

B. Calculation of Potential and Actual Emissions for Particulate

This coating process involves spraying solvated vinyl plastisol on various fibergalss materials and molds for fabrication of plastic "skins" and other flexible vinyl show components. The booth is equipped with a Binks Manufacturing Company no pump dyna precipitator water wash filtering system. The manufacturer supplied efficiency for this filtering system using vinyl plastisol is 98%.

The overspray rate would be 50% since most objects sprayed are more similar to flat surfaces than to table leg or bird cage surfaces (see AP-40 table 232, page 861)

Therefore, the particulate potential emissions may be calculated as follows:

(Utilization rate) (portion of overspray) = potential particulate emissions.

(6.9 lbs/hr) (0.50 overspray) = 3.5 lbs/hr potential emissions (3.5 lbs/hr) (8 hrs/day) (5 days/wk) (52 wks/yr) = 7280 lbs/yr = 3.64 T/yr.

The actual emissions take into account the 98% efficiency for the no pump water wash booth when vinyl plastisols are being sprayed (manufacturers spec.). The calculation proceeds as follows:

(potential emission rate) (1-filtering efficiency) = actual emissions (7280 lbs/yr) (0.02) = 145.6 lbs/yr = 0.07 T/yr

Potential and Actual Emissions September 20, 1983 Page Two

C. Calculation of Potentail and Actual Emissions for VOC

(Emission rate for VOC) = (utilization rate for kerosene) since the vinyl plastisol contains essentially no VOC.

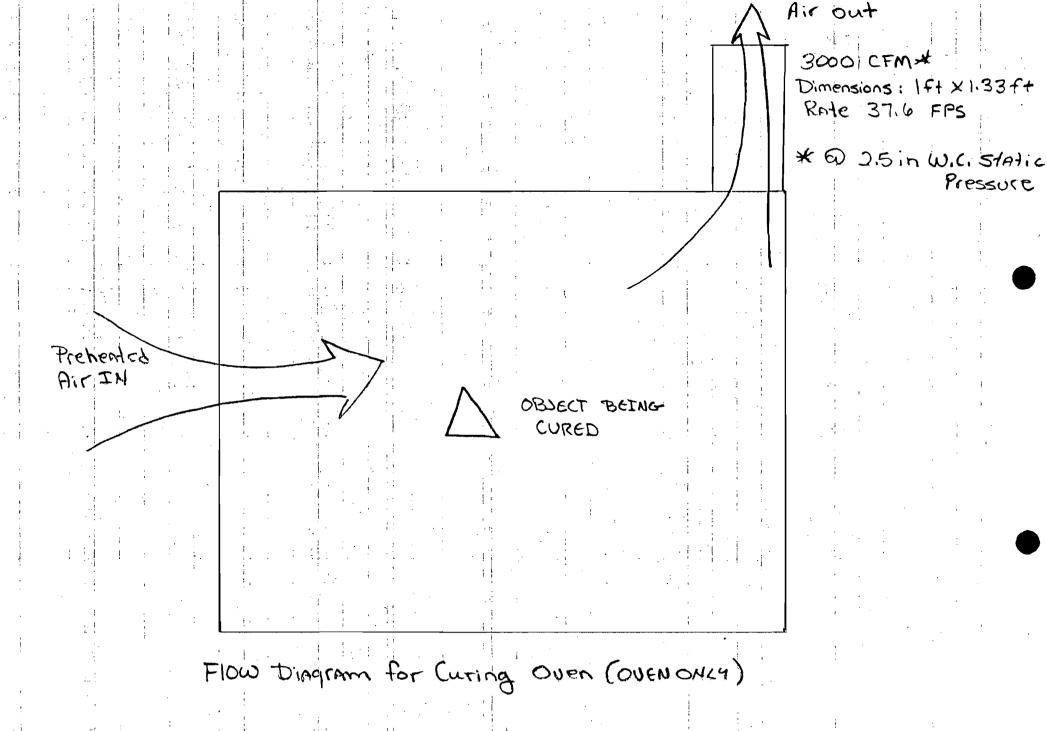
(19.5 lbs/wk) = potential VOC emissions= 1014 lbs/yr = 0.51 T/yr.

This total for potential emissions is divided between the emissions from the spray booth (flash off) and the emissions from the associated oven when heat curing occurs.

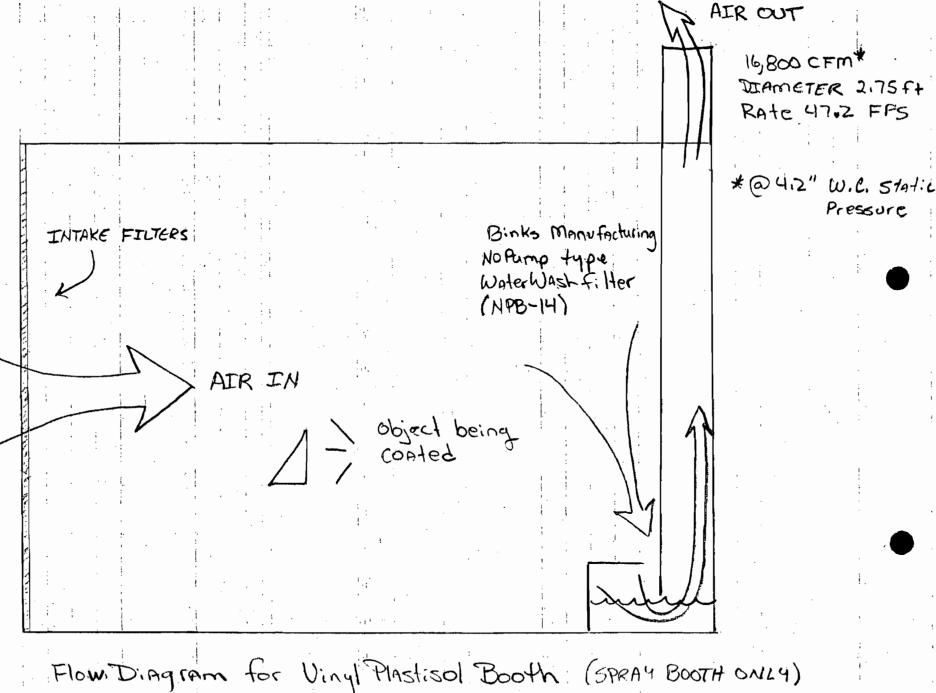
Flash off times are minimal, since the coated objects are rolled into the oven timediately after coating is completed. AP-40 page 862, figure 655 shows that with an estimated flash-off time of one minute, vinyl plastisols will lose approximately 71% of their solvent content. Therefore, the VOC emissions may be divided as follows:

71% from spray booth = 720 lbs/yr = 0.36 T/yr 29% from curing oven = 294 lbs/yr = 0.15 T/yr

Attachment #2



Pressure





NOPUMP SPRAY BOOTH (floor type)

Without benefit of pump or water-spraying manifold, Binks NOPUMP SPRAY BOOTH uses the highly effective scrubbing action of a water wash to separate paint particles from exhaust air. By ingenious channeling of the paint laden exhaust air through a "water tunnel" the NOPUMP system eliminates pumps, piping, filters, manifolds, and nozzles.

This engineering break-through gives you a highly efficient water-wash spray booth in which operating maintenance is virtually eliminated.

How it works

Paint laden air is drawn into the washing chamber at high velocity through an opening between entrainment plate and water surface (see illustration). The controlled dimension of this opening, and the specially designed profile of the entrainment plate, force the high velocity air to become severely turbulent, to splash up water, and to become intimately mixed with it.

This rapidly moving mixture of air, paint particles, and water droplets next impinges on the distribution plate which forces it to change direction abruptly and to flow upward through a torturous, labyrinth of baffles.

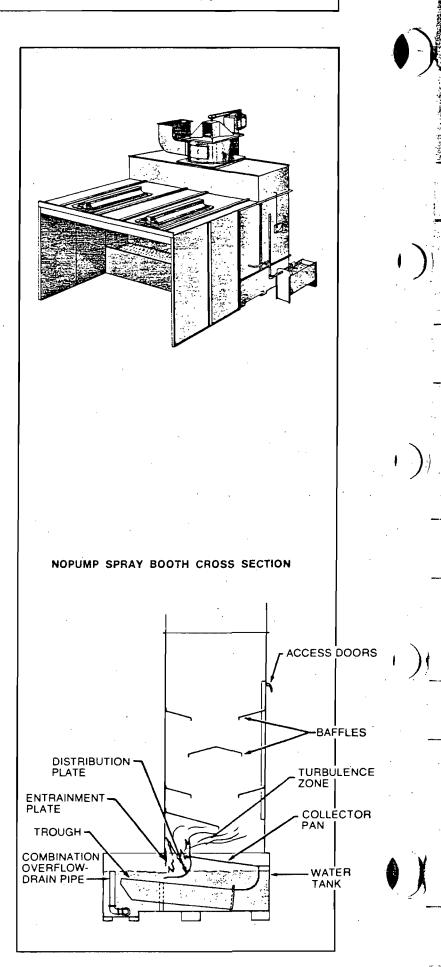
The "mixture" flow changes direction 11 times during its passage through the baffle section. At each change, centrifugal force separates air from paint particles and from water droplets. The resulting rain of water, particularly from the lower baffles, serves additionally as a water curtain for scrubbing the incoming spray laden air. And all of the paint spray that is separated from the air falls back into the water tank.

Water Treatment

The water in the tank is treated with Binks Compound, a specially formulated, low-foaming, alkaline-base powder. This additive causes the particles of paint to sink to the bottom of the tank where they agglomerate as a soft, loamy, residue. Residue buildup may approach to within 2 inches of the water surface without adversely affecting the "nopump" action in the water tunnel. Residue removal is very infrequent; even in high production painting.

Precise water level control

The gap between water surface and entrainment plate is kept within $\pm 1\%$ of its optimum dimension. This is accomplished with Binks Water Level Control Unit. This unit is located external to the booth proper—isolated from contaminating water and spray. Yet, it is directly connected, hydraulically, to the water tank and senses water level changes immediately and accurately. Its external location gives it maximum accessibility for inspection and calibration.



Attachment #3

