Check Sheet

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BEST AVAILABLE COPY

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PS F	SENDER: Complete items 1, 2, 3 and 4.							
Form 3811, July 1983	Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this cerd from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.							
86.t	1. Show to whom, date and address of delivery.							
ω	2. Restricted Delivery.							
	Mr. Edward B. Crowell Walt Disney World Company, Inc P. O. Box 40 Lake Buena Vista, FL 32830							
	4. Type of Service: Article Number	٦						
	Registered Insured COD P 408 533 641							
	Always obtain signature of addressee or agent and DATE DELIVERED.							
DOM	5. Signature - Addressee							
ESTIC	6. Signature Agent							
RETU	7. Date of Delivery							
R	8. Addressee's Address (ONLY if requested and few paid)							
DOMESTIC RETURN RECEIPT								
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P 408 533 641 ·

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL

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اً،	Street and No.	
Ĭ	P.O., State and ZIP Code	
<u> </u> -	Postage	\$
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S Form 3800, Feb. 1982	TOTAL Postage and Fees	\$
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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

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION NOTICE OF PERMIT

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

December 24, 1985

Enclosed are Permit Numbers AC 48-108740 and AC 48-108741, AC 48-108742, AC 48-108743, AC 48-108744, AC 48-108745, to Walt Disney World Company, Inc. which authorizes the construction of paint spray booths at your existing facility in Lake Buena Vista, Orange County, Florida. These permits are issued pursuant to Section 403, Florida Statutes.

Any Party to these permits has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32301; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this permit is filed with the clerk of the Department.

C. H. Fancy, P.E.

Deputy Chief

Bureau of Air Quality

Management

Enclosure

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

CERTIFICATION

	This is	to certify	that the	foregoing	Notice o	f Permit and
all	conies re	equested wer	e mailed	before the	close o	f business
~~			1005			

C. H. Fancy, P.E.

Deputy Chief

Bureau of Air Quality

Management

2600 Blair Stone Road

Tallahassee, Florida 32301

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

Patricia D. adams Dec. 24, 1985

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 48-108740 48-108741 48-108742 48-108743 48-108744 48-108745

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

Final Determination

Walt Disney World Company, Incorporated's applications for permits to construct three paint shop spray booths, two staff shop spray booths and a water wash plastisol spray booth at their facility in Lake Buena Vista, Orange County, Florida have been reviewed by the Bureau of Air Quality Management. Public Notice of the department's Intent to Issue the permit was published in the Orlando Sentinel on November 10, 1985.

Copies of the preliminary determination have been available for public inspection at the 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 comment period.

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

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: April 1, 1986

Post Office Box 40

Lake Buena Vista, Florida 32830 Latitude/Longitude:

Permit Number: AC 48-108740

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 30-43-13 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).

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.

GENERAL CONDITIONS:

<u>ت مالاستالات التميد مامكيمها التي يوقائل يوهوامولية ومماهماً سيتكالمام إليام المدار بيدا في مستارات من دوياته آدا لاماميماماما</u>

- 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.

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.

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.

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 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, 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 23 day of \underline{Dec} , 19 85

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 48-108741

Walt Disney World Company, Inc. Expiration Date: April 1, 1986

County: Orange

Post Office Box 40

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

1. Applications to construct an Air Pollution Source, DER form 17-1.202(1).

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.
- 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.

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:
 - 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.

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.

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 0.250 pounds per hour or 0.38 tons per year.

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, 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 23rd day of Dec, 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

PERMITTEE:

Post Office Box 40

Lake Buena Vista, Florida 32830 Latitude/Longitude:

Permit Number: AC 48-108742 Walt Disney World Company, Inc. Expiration Date: April 1, 1986

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:

1. Applications to construct an Air Pollution Source, DER form 17-1.202(1).

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.

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:
 - 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.

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.

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.

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 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.
- 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 construction permit as authorized by Rule 17-2.210(1), FAC.

Issued this 23nd day of loc, 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



BOR GRAHAM GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

PERMITTEE:

Permit Number: AC 48-108743 Walt Disney World Company, Inc. Expiration Date: April 1, 1986

Post Office Box 40

County: Orange

Lake Buena Vista, Florida 32830 Latitude/Longitude:

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).

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.

Best Available Copy

PERMITTEE: Permit Number: AC 48-108743
Walt Disney World Company, Inc. Expiration Date: April 1, 1986

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 author zed department personnel, upon presentation of creden ials or other documents as may be required by law, acces to the premises, at reasonable times, where the permitted ac ivity is located or conducted for the purpose of:
 - a. Having access to and copying any records that must be kept under the colditions of the permit;
 - Inspecting the facility, equipment, practices, or operations regula ed or required under this permit;
 and
 - c. Sampling or monitating any substances or parameters at any location reastably necessary to assure compliance with this permit or department rules.

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

- 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.

GENERAL CONDITIONS:

6

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.

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.

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 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 2311 day of Dec, 1985

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

VICTORIA J. TSCHINKEL, Secretary

page attached.

Best Available Copy

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: April 1, 1986

Post Office Box 40

Lake Buena Vista, Florid & 32830 Latitude/Longitude:

County: Orange

O Latitude/Longitude: 28° 25′ 32"N/

Permit Number: AC 48-108744

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 17-4. 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).

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.

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;
 - 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.

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.

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.

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 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 construction permit as authorized by Rule 17-2.210(1), FAC.

Issued this 231 day of Dec, 1985

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

ICTORIA 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

Walt Disney World Company, Inc. Expiration Date: April 1, 1986

Post Office Box 40

Lake Buena Vista, Florida 32830 Latitude/Longitude:

Permit Number: AC 48-108745

County: Orange

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 17-1.202(1).

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.
- 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.

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.

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.

GENERAL CONDITIONS:

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- 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.

SPECIFIC CONDITIONS:

N. 2.

- 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, 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 23 day of Dec, 1985

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

VICTORIA J. TSCHINKEL, Secretary

pages attached.

State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION



FOR ROUT	ING TO OTHER THAN THE ADDRESSEE
То:	Loctn:
То:	Loctn:
То:	LOCTN:
FROM:	Date:

TO: Victoria J. Tschinkel

FROM: Clair Fancy

DATE: December 23, 1985

SUBJ: Approval of Attached Air Construction Permits

Attached for your approval and signature are six Air Construction Permits to Walt Disney World Company, Inc., to construct three paint shop spray booths, two staff shop spray booths and a water wash plastisol spray booth at their facility in Lake Buena Vista, Orange County, Florida.

Day 90, after which the permits would be issued by default, is December 25, 1986.

The Bureau recommends your approval and signature.

CF/pa

Attachment

The Orlando Sentinel

Published Daily Orlando, Orange County, Florida

State of Florida COUNTY OF ORANGE

Before the undersigned authority personally appeared. Catherine Deering

she is the Legal Advertising Representative of the Orlando Senting a D

published at Orlando, in Orange County, Florida; that the attached copy of ad-Notice of Agency Action vertisement, being a in the matter of

to Walt Disney World Company, Inc. Permit

_____in the _____Court.

was published in said newspaper in the issues of______

November 10, 1985

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.

18.th

November

A.D., 19

Notary Public, State of Florida at Large Notary Public

My Commission Expires July 13, 1989

Bonded Thru Brown & Brown, Inc.

FORM NO. AD-262

day

State of Florida Department of Environmental Regulation
Notice of Proposed Agency

Action on Permit Applications The Department of Environmental Regulation gives notice otits intent to issue permits to Walt Disney World Company, Inc. for the construction of three paint shop spray booths, two staff shop spray booths and a water was plastisol spray booth in the Central Facilities Shop building at the applicant's existing facility in 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 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 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, Florida Administrative Code, 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 14 days of the publication of this notice will be considered in the department's fi-

DEPARTMENT OF ENVIRONMENTAL REGULATION

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REMARKS:	INFO	DRMATION
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you requested.		
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PS Form 3811, July 1983	SENDER: Complete items 1, 2, 3 and 4. Put your address in the "RETURN TO" space on the reverse side. Fallure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested. 1. Show to whom, date and address of delivery. 2. Restricted Delivery.		
	Article Addressed to: Mr. Edward B. Walt Disney Wo Post Office Bo Lake Buena Vis	orld Co., Inc.	
	4. Type of Service: Registered Insured Contified Contif	Article Number P 408 533 637	
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P 408 533 637

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL

(See Reverse)

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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

October 28, 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:

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 permits, 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 permits.

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

GUV

Deputy Chief

Bureau of Air Quality
Management

CHF/pa

Attachments

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

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

15-1

The Department of Environmental Regulation gives notice of its intent to issue permits to Walt Disney World Company, Inc. for the construction of three paint shop spray booths, two staff shop spray booths and a water wash plastisol spray booth in the Central Facilities Shop building at the applicant's existing facility in 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 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 Accordingly, the is designed to formulate agency action. 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, Florida Administrative Code, 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.

S- 3

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 14 days of the publication of this notice will be considered in the department's final determination.

BEFORE THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of		DER	File	No.	AC	48-108740
Application for Permits by:)		,		AC	48-108741
)				AC	48-108742
Walt Disney World Company, Inc.)				AC	48-108743
Post Office Box 40)				AC	48-108744
Lake Buena Vista, Florida 32830)				AC	48-108745

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 August 16, 1985 to DER for permits to construct three paint shop spray booths, two staff shop spray booths and a water wash plastisol booth at the applicant's facility in 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 an opportunity to respond, to present evidence and argument on all issues involved, to conduct cross-examination of witnesses and submit rebuttal evidence, to submit proposed findings of facts and orders, to file exceptions 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, 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.

Executed the day of common, 1985, in Tallahassee, Florida.

> STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

C. H. Fancy,

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

CERTIFICATION

This is to certify that the foregoing Intent to Issue and all copies were mailed before the close of business on $\frac{\text{Now. } l}{\text{.}}$, 1985.

C. H. Fancy

Deputy Chief

Bureau of Air Quality

Management

2600 Blair Stone Road

Tallahassee, Florida 32301

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

Patricia G. Adams Nov. 1, 1985

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

1423

- (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 48-108740 AC 48-108741 AC 48-108742 AC 48-108743 AC 48-108744 AC 48-108745

4

*

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

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.

D. Sources Reviewed

14-5

This application has been submitted for:

Source	Permit Number
NSA Paint Spray Booth No. 1	AC 48-108740
NSA Paint Spray Booth No. 2	AC 48-108741
NSA Paint Spray Booth No. 3	AC 48-108742
NSA Staff Shop Booth No. 1	AC 48-108743
NSA Staff Shop Booth No. 2	AC 48-108744
Water Wash Plastisol Booth No. 1	AC 48-108745

E. Standard Industrial Classification Code (SIC)

The facility is classified as:

Major Group No. 359; Miscellaneous Machinery, Except Electrical

Industrial No. 3599; Machinery, Except Electrical, Not Elsewhere Classified

F. Facility Category

Walt Disney World Company, Inc. is classified as a major emitting facility for the air pollutants nitrogen oxides, sulfur dioxide, and carbon monoxide.

- G. Application Completeness Date
 - (i) Application received: August 16, 1985
 - (ii) Application deemed complete: August 21, 1985

II. Rule Applicability

1/2 4

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	5.65	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
Plastisol Booth No.1 Total	0.53 15.36	3.65 25.59	0.08 1.21

B. Air Quality Analysis

18. 4

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:

Permit Number: AC 48-108740 Walt Disney World Company, Inc. Expiration Date: April 1, 1986

Post Office Box 40

County: Orange 28° 25' 32"N/

Lake Buena Vista, Florida 32830 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 17-1.202(1).

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.
- 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.

GENERAL CONDITIONS:

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- 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.

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.

GENERAL CONDITIONS:

14.3

- 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:

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- 1. 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.

SPECIFIC CONDITIONS:

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- 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 0.89 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, 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
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 48-108741

Walt Disney World Company, Inc. Expiration Date: April 1, 1986

Post Office Box 40 County: Orange

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

<u>報告的問題主義,第28個個個人概要,1989年時,1985年第一個人的</u>第2個人的主義的主義,1986年的第四人,1986年,1986年,1986年,1986年,1986年,1986年,1986年,1986年,1986年,1

1. Applications to construct an Air Pollution Source, DER form 17-1.202(1).

GENERAL CONDITIONS:

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- 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.

GENERAL CONDITIONS:

15-5

- 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.

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.

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 0.250 pounds per hour or 0.38 tons per year.

SPECIFIC CONDITIONS:

54-3

- 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, 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.

Table 4 to 5 a

issued thisday oi, is
STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

VICTORIA J. TSCHINKEL, Secretary

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page attached.

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STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

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



GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

PERMITTEE:

Permit Number: AC 48-108742 Walt Disney World Company, Inc. Expiration Date: April 1, 1986

Post Office Box 40 County: Orange

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

1. Applications to construct an Air Pollution Source, DER form 17-1.202(1).

Protecting Florida and Your Quality of Life

GENERAL CONDITIONS:

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- 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.

GENERAL CONDITIONS:

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Line 4

- 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.
- 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:
 - 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.

GENERAL CONDITIONS:

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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.

GENERAL CONDITIONS:

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- 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 0.250 pounds per hour or 0.38 tons per year.

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 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.
- 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 thisday of, 19
	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 48-108743 Walt Disney World Company, Inc. Expiration Date: April 1, 1986

Post Office Box 40

County: Orange Lake Buena Vista, Florida 32830 Latitude/Longitude: 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:

Applications to construct an Air Pollution Source, DER form 17-1.202(1).

Best Available Copy

PERMITTEE: Permit Number: AC 48-108743
Walt Disney World Company, Inc. Expiration Date: April 1, 1986

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 so 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.

GENERAL CONDITIONS:

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- 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.

Page 3 of 6.

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.

GENERAL CONDITIONS:

14-3

- 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:

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- 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.

SPECIFIC CONDITIONS:

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- 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 0.08 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.

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	OF FLORIDA	DEPARTMENT	OF
ENVIRO	MHENIAL REG	GULATION	

VICTORIA J. TSCHINKEL, Secretary

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STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

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

14.5



BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

PERMITTEE:

Permit Number: AC 48-108744

Walt Disney World Company, Inc. Expiration Date: April 1, 1986

Post Office Box 40 County: Orange

Lake Buena Vista, Florida 32830 Latitude/Longitude: 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 $\frac{403}{5}$, Florida Statutes, and Florida Administrative Code Rule(s) $\frac{17-2}{2}$ and $\frac{17-4}{2}$. 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).

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.
- 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.

GENERAL CONDITIONS:

14.5

- 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;
 - 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.

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.

GENERAL CONDITIONS:

13-3

- 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.

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 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 thisday of, 19	-
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

U 5. i



BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

PERMITTEE:

Permit Number: AC 48-108745

Walt Disney World Company, Inc. Expiration Date: April 1, 1986

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:

1. Applications to construct an Air Pollution Source, DER form 17-1.202(1).

Protecting Florida and Your Quality of Life

GENERAL CONDITIONS:

and the second of the second o

- 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.
- 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.

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:
 - 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.

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.

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.

SPECIFIC CONDITIONS:

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- 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, 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.

autnorized	by Rule	1/-2.	210(1),	FAC.			· i		
			Issued	this		_day o	f	, 19_	
			STATE ENVIRO					OF	
-									
			VICTOR	IA J.	TSCH	INKEL,	Secr	etary	,

Page 6 of

pages attached.

Page 6 of 6

BEST AVAILABLE COPY

LAKE BUENA VISTA, FLORIDA

63-215

DATE 08/19/85 - CHECK NO 599689

AMOUNT OF CHECK

PAY THE SUM OF

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TO THE ORDER OF

DEPT OF ENVIR REGULATION
BUREAU OF AIR QUALITY MGT
2600 BLAIR STONE RD

TALLAHASSEE FL 32301

WALT DISNEY-WORLD CO.

Allan a DIC

SUN BANK, N.A. DOWNTOWN OFFICE ORLANDO, FLORIDA 32802

REMITTANCE ADVICE

Walt isney World LAKE BUENA VISTA, FLORIDA 32830 - TELE (305) 824-2222

DETACH THIS STUB BEFORE DEPOSIT

					BELOKE DEPOSIT
	3000015899		0001301	CHEC	K NO. 599689
EFERENCE NO.	INVOICE NO.	PURCH. /MDSE. ORDER NO.	GROSS	DISCOUNT	NET
REMITTANCE		NG AGENT FOR WALT	DISNEY WORLD	co	
438336	AC48-75833	CK R	100.00	•00	100.00
438336	AC48-75834	CK R	100.00	•00	100.00
438336	AC48-75835	Ch R	100.00	•90	100.00
438336	AC48-75836	CK R	100.00	•00	100.00
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APPLICAT	ION PROCESSING	FEE FOR 6 PAINT		• 19	E K 100.00
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STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

Nº 76084

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Halt Vianus Hould	Date AMANUT 23, 1983
Address Anhe Bueno. Victa Albrida	Dollars \$ 600.00
Applicant Name & Address Same as about	· · · · · · · · · · · · · · · · · · ·
Revenue Code D01031 Application Number	8-108740, 41, 42, 43, 44
By Patricia	8-108740, 41, 42, 43, 44 and 45

PS Form 3811, July 1983	Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check-box(es) for service(s) requested. 1. Show to whom, date and address of delivery. 2. Restricted Delivery.										
	3. Article Addressed to: Mr. Edward B. Crowell Walt Disney World Company, Inc P. O. Box 40 Lake Buena Vista, Florida 3283										
	4. Type of Service: Article Number Registered Insured Certified COD P 085 152 632 Express Mail										
	Always obtain signature of ac DATE DELIVERED.	ddressee <u>or</u> agent and									
WOO	5. Signature – Addressee	PLANON									
ESTIC	6. Signatura - Agent X Buskey	AUG T									
RETU	7. Date of Delivery (1985									
DOMESTIC RETURN RECEIF	8. Addressee's Address (ONL	Y if requested and fee paid)									

P 085 152 632

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED NOT FOR INTERNATIONAL MAIL

(See Reverse)

6-014	Sent to Mr.	Edward	В.	C:	rowell			
84-44	Street and No.							
★ U.S.G.P.O. 1984-446-01	P.O., Sta	te and ZIP Cod	le	-				
.S.G.F	Postage	\$						
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	Return R to whom							
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PS Form 3800, Feb. 1982	TOTAL P		\$					
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orm		8/9/85						
PS F								

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

August 9, 1985

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

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

Dear Mr. Crowell:

The Bureau of Air Quality Management has received a copy of your July 12, 1985, letter to Mr. Charles Collins in which you requested the extension of the expiration dates of six construction permits. We are unable to grant this request because the six construction permits for the spray booths expired on June 1, 1985.

If you still plan to use these spray booths, you must submit new applications to construct an air pollution source along with the appropriate processing fees.

If you have any questions, please write to me at the above address or call Ed Svec, Review Engineer, at (904)488-1344.

Sincerely.

C. H. Fancy, P.E.

Deputy Chief

Bureau of Air Quality

Management

CHF/ES/s

Charles Collins CC:



ENVIRONMENTAL SCIENCE AND ENGINEERING, INC.

August 15, 1985 85-116-0100-2110

Mr. C. H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality Management
Florida Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, FL 32301-8241

Re: Reedy Creek Improvement District - Spray Booths

Dear Mr. Fancy:

Enclosed is a copy of the set of original applications for the referenced sources. Also attached are copies of correspondence addressing comments during the previous review period. The processing fee is being sent under separate cover from Reedy Creek Improvement District.

It is my understanding, based on conversation with Mr. Ed Svec on August 13, 1985, that this will be sufficient for the re-application described in your letter of August 9, 1985, to Mr. Crowell.

Yours very truly,

MADobant

Michael H. Dybevick, P.E. Chemical Engineer

MHD:b1

cc: Fred Harden, RCID
Charles Collins, St. Johns River District FDER

DER

AUG 16 1985

BAQM

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Expert 4/1/86 Complete 8/21/85

AC 48-108740 BEST AVAILABLE COPY AC 48-75833 STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULA ST. JOHNS RIVER DISTRICT 3319 MAGUIRE BOU SUITE 232 ORLANDO, FLORIDA 3280 SAINT JOHNS DER RESERVED CATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES HIG 16 1985 [] New [x] Existing [SOURCE TYPE: Spray Paint Booth APPLICATION TYPE: [XX] 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 #1 Street Facilities Way SOURCE LOCATION: City Bay Lake North 3144316 UTM: East 443527 Latitude 28 • 25 ' 32 "N Longitude 81 ° 34 ' 36 "W APPLICANT NAME AND TITLE: Edward B: Crowell. Vice President Facilities Division APPLICANT ADDRESS: P.O. Box 40, Lake Buena 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 permitte establishment.

Signed:

*Attach letter of authorization

Edward B Crowell V P Facilities Division
Name and Title (Please Type)

Telephone No. (305) 824-7700

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

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

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

pollution sources.	Edy Wife
	Signed Stell M. McKim
	Name (Please Type)
	Reedy Creek Utilities Co., Inc. Company Name (Please Type)
ida Registration No.25555	P.O. Box 40 Lake Buena Vista, FL 32830 , Mailing Address (Please Type)
SECTION	
and expected improvements in	t of the project. Refer to pollution control equipment source performance as a result of installation. State It in full compliance. Attach additional sheet if
Spray paint booth for coati	ng a variety of objects including vehicles, wooden
furniture, trash cans, ride	components, posts and frames using 2 part polyurethane
2 part acrylic, enoxy prime	rs and other primer coating systems
2 part acrylic, epoxy prime	rs and other primer coating systems.
	n this application (Construction Permit Application Only
ichedule of project covered intert of Construction <u>exist</u> costs of pollution control sy for individual components/uni	n this application (Construction Permit Application Only
ichedule of project covered intert of Construction <u>exist</u> costs of pollution control sy for individual components/uni information on actual costs s	n this application (Construction Permit Application Only inq booth Completion of Construction N/A stem(s); (Note: Show breakdown of estimated costs only ts of the project serving pollution control purposee.
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ichedule of project covered in text of Construction <u>exist</u> costs of pollution control sy for individual components/unitenformation on actual costs someth.)	n this application (Construction Permit Application Only inq booth Completion of Construction N/A stem(s); (Note: Show breakdown of estimated costs only ts of the project serving pollution control purposee.

Page 2 of 12

Form 17-1.202(1) ective October 31, 1982

s is a new source or major modification, answer the following quest	
· · · · · · · · · · · · · · · · · · ·	
· · · · · · · · · · · · · · · · · · ·	
r No)	ions.
this source in a non-attainment area for a particular pollutant?	yes
If yes, has "offset" been applied?	no
If yes, has "Lowest Achievable Emission Rate" been applied?	_no
If yes, list non-attainment pollutants.	
es best available control technology (BACT) apply to this source? yes, are Section VI.	no
es the State "Prevention of Significant Deterioriation" (PSD) quirement apply to this source? If yes, see Sections VI and VII.	no
"Standarde of Performance for New Stationary Sources" (NSPS) ply to this source?	no
"National Emisaion Standards for Hazardous Air Pollutants" ESHAP) apply to this source?	no [:]
asonably Available Control Technology" (RACT) requirements apply s sourcs?	no
	If yes, has "Lowest Achievable Emission Rate" been applied? If yes, has "Lowest Achievable Emission Rate" been applied? If yes, list non-attainment pollutants. Best available control technology (BACT) apply to this source? yes, see Section VI. Best the State "Prevention of Significant Deterioriation" (PSD) quirement apply to this source? If yes, see Sections VI and VII. "Standarde of Performance for New Stationary Sources" (NSPS) ply to this source? "National Emission Standards for Hazardous Air Pollutants" ESHAP) apply to this source? asonably Available Control Technology" (RACT) requirements apply

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

No RACT guidelines for this type of surface coating operations

BEST AVAILABLE COPY

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

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

See attachment #1, Part H

	Conteminants		Utilization			
*scription	Typa	% WE	Rate - 1bs/hr	Relate to Flow Diagram		
2 part polyurethane sv tem	VOC/ particulate	0% 100%	10.1	Paint application		
system 2 part acrylic	VOC/ particulate	0% 100%	5.0	Paint application		
enamel 2 mrt epoxy primer	VOC/parti-	0%	1.2	Paint application		
conventional primer	culate. VOC/	100%	0.4	Paint application		
systems	particulate	51% 49%	11.8	Thinner for paint appli- cation		

						•	. •	
- 1	Total	Process	Input Rate	(lbs/hr):		• •	•	
			•		 · · · · · · · · · · · · · · · · · · ·			

	•					
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	Emission ¹ Maximum Actual Ibs/hr T/yr		Allowed ² Emission Rate per	Allowable ³ Emission	Potent	Relate to Flow	
Contaminant			Rule 17-2	1 lbs/hr	lbs/yr	lbs/yr T/yr	
рс	11.9	24.75			49.500	24.75	. :
particulate	0.47	0.98		-	39.000	19.5	
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						~	· · · · · · · · · · · · · · · · · · ·

Sea Section V, Item 2.

Reserve 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)

Carculated from operating rate and applicable standard.

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

ER orm 17-1.202(1)

ffective November 30, 1982

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

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Binks paint arrestor	particulate	95%	N/A	manufacturers
Filters model #29-893		* * *		specs.
Filter Bank dimensions		٠		
10 ft x 26.7 ft or	:			
267 sq ft total				

E. Fuels N/A

	Consu	mption*		
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 Ana	lysis:
----------	--------

Percent Sulfur:		and the second second	Percent Ash:				
Density:		lbs/gal	Typical Percent	Nitrogen:			
Heat Capacity:		BTU/16	·	**		BTU/gal	
Other Fuel Cont	aminants (whic	h may cause air p	ollution):			· .	
							
F. If applicab	le, indicate t	he percent of fue	l used for space	heating.		<i>i</i> .	

Annual Average _____ Maximum ____

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

DER Form 17-1.202(1) Effective November 30, 1982 5 33 8 3

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tent:	ambient		_DSCFH	Gas Exit	Temn	aratura. am	hient	
				•		a	Biene	°F
			x	Yelocity	:	47	.8*****	FP
	acic pressi	ure	. se	e attachm	ent 1	l part 1		
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1. Total process input rate and product weight -- show derivation [Rule 17-2.100(127)]

Please provide the following supplements where required for this application.

- 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 aketch, design pressure drop, etc.)
- 5. With construction permit application, attach derivation of control device(8) efficiency. Include test or design data. Items 2, 3 and 5 should be consistent: actual emissions = potential (1-efficiency).
- 6. An 8 1/2" x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained.
- 7. An 8 1/2" x 11" plot plan showing the location of the establishment, and points of airborne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).
- 8. An 8 1/2" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

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

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struction indicating that the source was permit.	t, attach a Certificate of Completion of Co as constructed as shown in the constructi
SECTION VI: BEST AVAIL	ABLE CONTROL TECHNOLOGY
	tionary sources pursuant to 40 C.F.R. Part
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Deacribe the existing control and treatmen	nt technology (if any).
	· · · · · · · · · · · · · · · · · · ·
1. Control Device/System:	2. Operating Principles:

Effective November 30, 1982

5. Useful Life: Operating Costs: 7. Maintenance Cost: Energy: Emissions: Conteminent Rate or Concentration Stack Parameters 10. Height: Diameter: ft. Flow Rate: ACFM Temperature: OF. c. Valocity: FPS Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary). 1. Control Device: Operating Principles: Efficiency: 1 Capital Cost: d.` c. Useful Life: Operating Cost: e. Energy:2 Maintenance Cost: Availability of construction materials and process chemicals: i. j. Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate k. within proposed levels: 2. Control Device: Operating Principles: a. Efficiency: 1 Capital Cost: d. ·c. Operating Cost: Useful Life: Energy:2 Maintanance Cost: · g · Availability of construction materials and process chemicals: ¹Explain method of determining efficiency. ²Energy to be reported in units of electrical power - KWH design rate.

Page 9 of 12

DER Form 17-1.202(1)

Effective November 30, 1982

Applicability to manufacturing processes: Ability to construct with control device, install in available apace, and operate within proposed levels: 3. Control Device: Sperating Principles: Efficiency: 1 Capital Cost: 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: Energy: 2 Maintenance Cost: Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available apace, and operate within proposed levels: Describe the control technology selected: Efficiency:1 Control Device: Capital Cost: Useful Life: Energy: 2 Operating Cost: Maintenance Cost: Manufacturer: Other locations where employed on similar processes: (1) Company: (2) Mailing Address: (3) City: (4) State: lain method of determining efficiency. 2 Energy to be reported in unita of electrical power - KWH design rate. Form 17-1.202(1)

Page 10 of 12

Effective November 30. 1982

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10. Reason for selection and	description	of systems:	, ** .		
pplicant must provide this info	rmation whe	n available.	Should th	nis inform	ation not b
vailable, applicant must state t	he reason(s) why.			
SECTION VII - P	DEVENTION O	E STONTETOANT	T NETERTORA	TOM.	
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Company Monitored Data					
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Attach all data or statiatical			ication.		
ecify bubbler (8) or continuous	(c).		:		
R Form 17-1.202(1) fective November 30, 1982	Page	11 of 12			· :

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1 4.	Tilectometicacion, Fleto and faporacory
a .	Was instrumentation EPA referenced or its equivalent? [] Yes [] No
a b.	Was instrumentation calibrated in accordance with Department procedures?
	[] Yes [] No [] Unknown
9. 4 Me	teorological Data Used for Air Quality Modeling
1.	Year(s) of data from / / to / /
	month day year month day year
■.2,	Surface data obtained from (location)
3 .	Upper air (mixing height) data obtained from (location)
4.	Stability wind rose (STAR) data obtained from (location)
Co	mputer Models Used
1 .	Modified? If yes, attach description.
≡ Ż.	Modified? If yes, attach description.
3 .	Modified? If yes, attach description.
4 4.	Modified? If yes, attach description.
	tach copies of all final model runs showing input data, receptor locations, and prin-
	plicants Maximum Allowable Emission Data llutant Emission Rate
	TSP grams/sec
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	tach list of emission sources. Emission data required is source name, description of
po	int source (on NEDS point number), UTM coordinates, stack data, allowable emissions, d normal operating time.
. At	tach all other information supportive to the PSD review.
b 10	scuss the social and economic impact of the selected technology versus other applica- e technologies (i.e., jobs, payroll, production, taxes, energy, etc.). Include sessment of the environmental impact of the sources.
. At	tach acientific, engineering, and technical material, reports, publications, jour- ls, and other competent relevant information describing the theory and application of e requested best available control technology.
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DER Form 17-1.202(1) Effective November 30, 1982

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	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) $(7.2 lbs/gal) = 0$	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 Total solvent emissions from one part primers: (0.31 T/yr. from primer

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	<u>Amount</u>
2-part polyurethane system* 2-part acrylic enamel*	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	
	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	Unthinned 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 Total emitted from	0.60 tons/yr. 0.30 tons/yr. 0.07 tons/yr.	11.9 tons/yr. 6.0 tons/yr. 1.4 tons/yr.
2-part systems	0.97 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.

(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 system	s 0.9	7 tons/yr.
Total	from	other primers	0.0	l tons/yr.
		Total:	0.98	B 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)	Density	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

	Weigl	nt Percents	Source of
Type of Paint	VOC	<u>Particulate</u>	Figure
2 mant 1	0.00	100%	ND 40 4 0 0 1
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 exhaus fans from Binks Manufacturing, model 30-4313 rated at 18029 SCFM at WC static pressure (See Attachment #2)

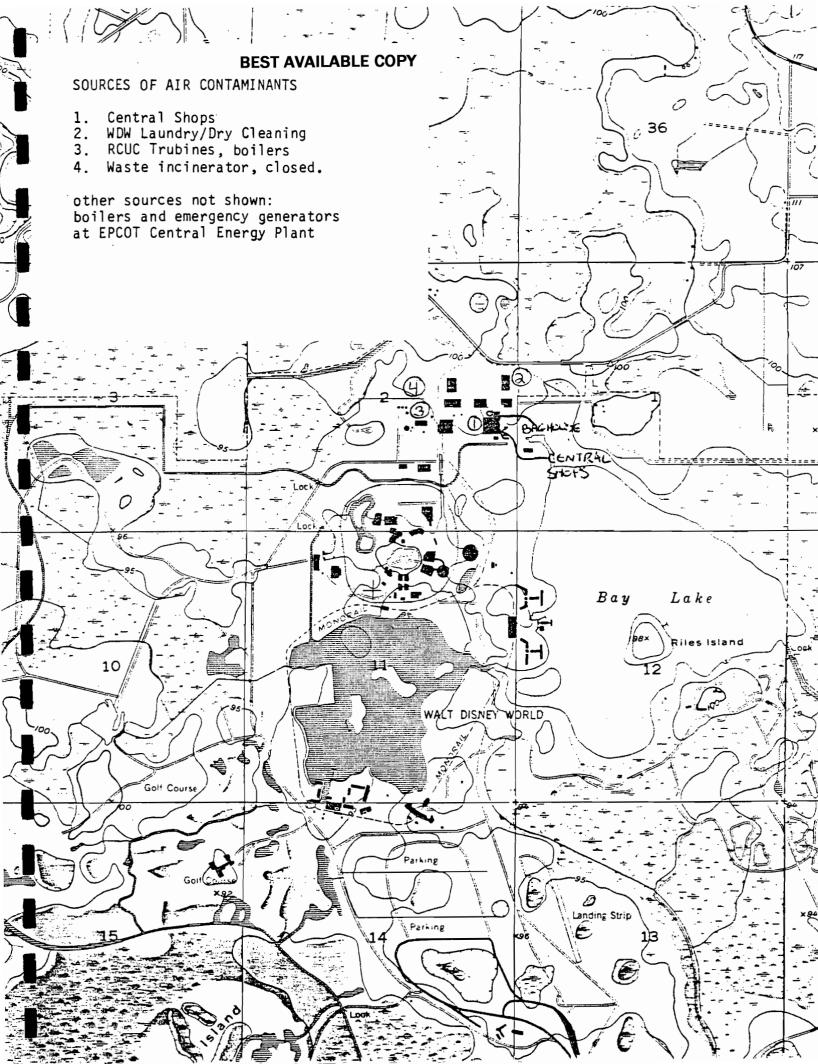
Total air flow from both fans 36058 SCFM at $\frac{1}{4}$ " WC static pressure

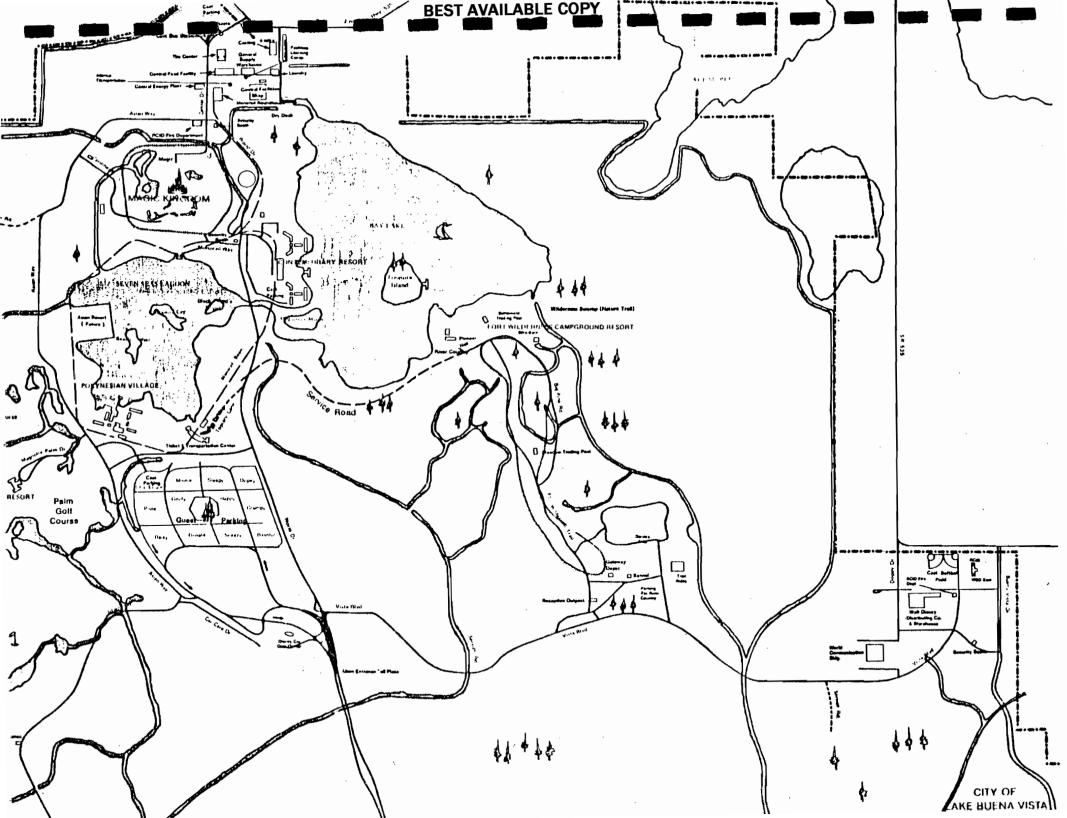
Stack diameter 2.83 ft. radius 1.415 ft. Cross sectional area of stack = $TTr^2 = (3.14)(1.415)^2 = 6.29$ sq. ft. Air velocity from stack = $(18029 \text{ SCFM} \div 6.29 \text{ sq. ft.})$ = 2866 FPM= 47.8 FPS through each of two vents

Attachment #2

Flow Diagram

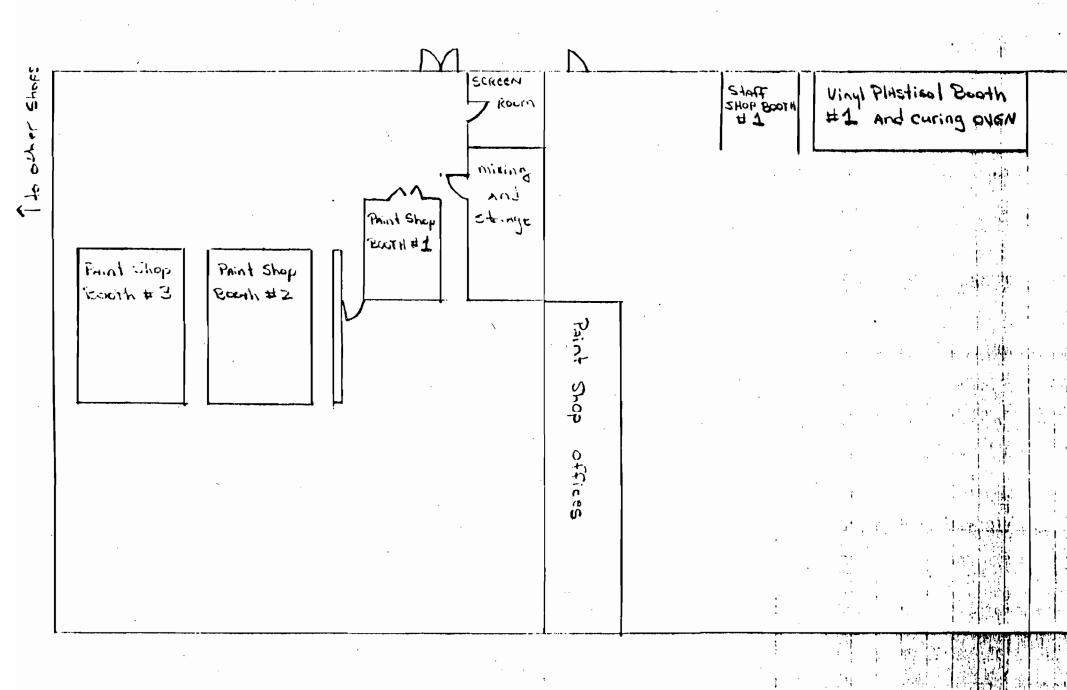
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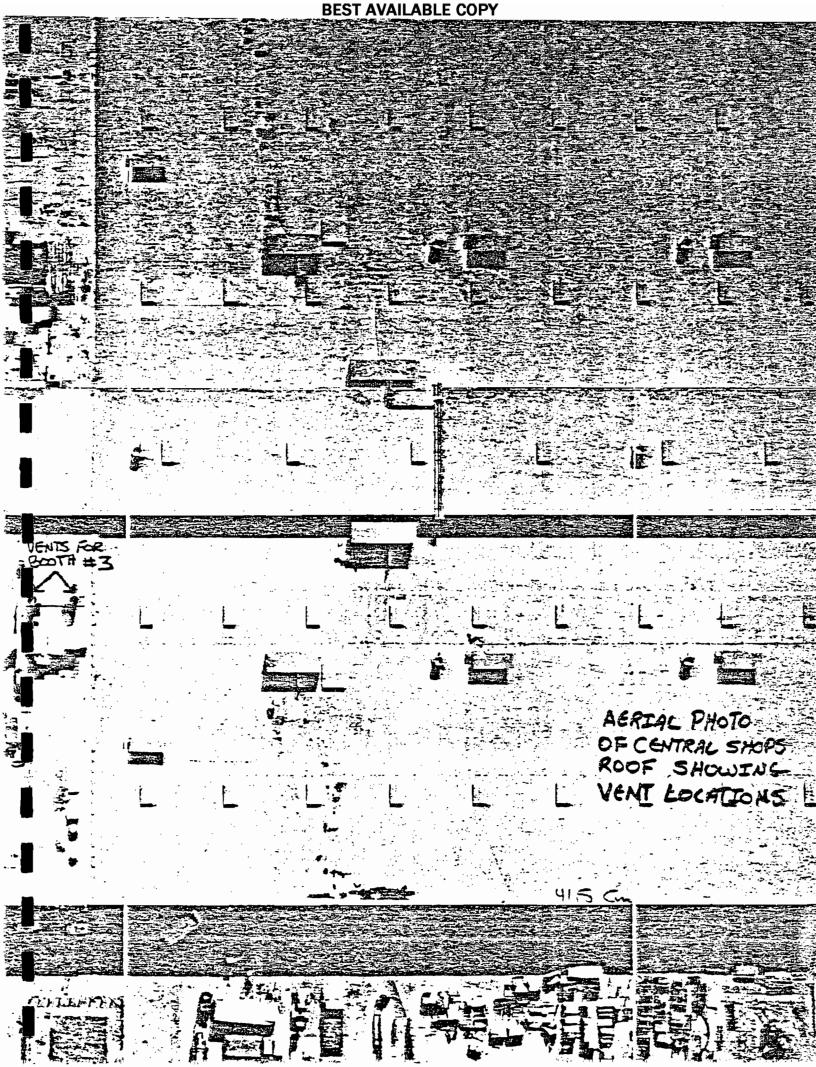


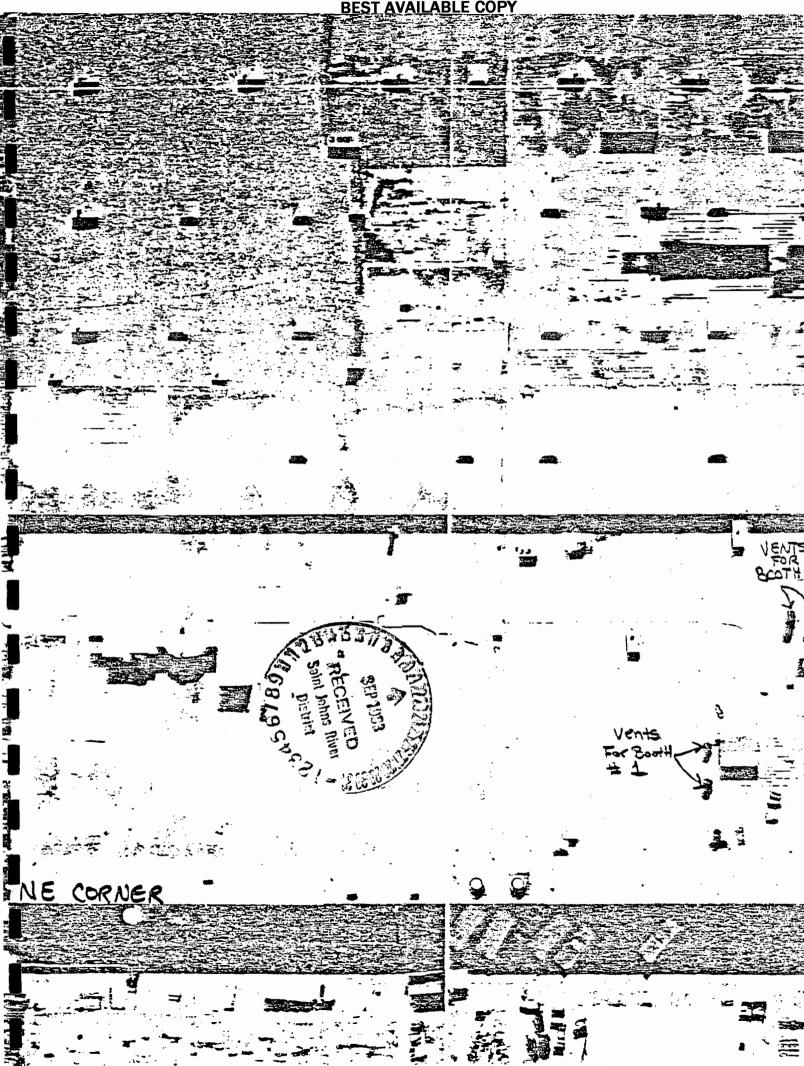
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AC 48-75834

STATE OF FLORIDA

	BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL SECRETARY ALEX SENKEVICH DISTRICT MANAGER /CONSTRUCT AIR POLLEGED SOURCES
SOURCE TYPE: Spray Paint Booth	
APPLICATION TYPE: [X] Construction []	
COMPANY NAME: WALT DISNEY WORLD Co., In	
Identify the specific emission point sou Kiln No. 4 with Venturi Scrubber; Peakin	rce(s) addressed in this application (i.e. Lime NSA Paint Shop paint g Unit No. 2, Gas Fired) Booth #2
SOURCE LOCATION: Street Facilities Way	City Bay Street
UTM: East 443516	North 3144309
Latitude <u>28</u> ° <u>25</u> '	32 "N Longitude 81 34 36 "W
APPLICANT NAME AND TITLE: Edward B. Cro	well, Vice President Facilities Division
APPLICANT ADDRESS: P. O. Box 40 Lake Bu	ena Vista, FL 32830
A. APPLICANT	nts by APPLICANT AND ENGINEER ized representative* of WALT DISNEY WORLD Co.
permit are true, correct and complet I agree to maintain and operate th facilities in such a manner as to Statutes, and all the rules and regu also understand that a permit, if g	n this application for a construction e to the best of my knowledge and belief. Further the pollution control source and pollution control comply with the provision of Chapter 403, Florid lations of the department and revisions thereof. The ranted by the department, will be non-transferable than the upon sale or legal transfer of the permitted signed:
	Edward B. Crowell, V.P. Facilities Division
	Name and Title (Please Type)
	Date: Telephone No. (305) 824-7700
B. PROFESSIONAL ENGINEER REGISTERED IN	FLORIDA (where required by Chapter 471, F.S.)
been designed/examined by me and f principles applicable to the treatme	ing features of this pollution control project have ound to be in conformity with modern engineering and disposal of pollutants characterized in the mable assurance, in my professional judgment, the 7-2.100(57) and (104)

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

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	Signed (1) / Com /ED W. MCKIM Name (Please Type)
	Mome (Yledge IVDE)
	Reedy Creek Utilities Co., Inc. Company Name (Please Type)
	P.O. Box 40 Lake Buena Vista, FL 32830
	Mailing Address (Please Type)
ida Registrati	on No.25555 Date: 9/2/83 -Telephone No. (305) 824-4950
	SECTION II: GENERAL PROJECT INFORMATION seture and extent of the project. Refer to pollution control equipmen
necessary:	oject will result in full compliance. Attach additional sheet if
Spray paint	booth for coating a variety of objects including vehicles, wooden f
niture, tras	h cans, ride components, posts and frames using 2 part polyurethane,
part acrylic	. epoxy primers and other primer coating systems.
4	
	-1
	oject covered in this application (Construction Permit Application On ruction existing booth Completion of Construction N/A
Start of Const Costs of pollu for individual Information on	ruction existing booth Completion of Construction N/A
Start of Const Costs of pollu for individual Information on	ruction existing booth Completion of Construction N/A stion control system(s): (Note: Show breakdown of estimated costs on components/units of the project serving pollution control purposes:
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Start of Const Costs of pollu for individual Information on permit.) Indicate any p point, includi	tion control system(s): (Note: Show breakdown of estimated costs on components/units of the project serving pollution control purposes. actual costs shall be furnished with the application for operation. A Previous DER permits, orders and notices associated with the emission and permit issuance and expiration dates.

	the control of the co	
	this is a new source or major modification, answer the following questes or No)	tions.
ı.	Is this source in a non-attainment area for a particular pollutant?	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 ·
3.	Does the State "Prevention of Significant Deterioriation" (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 .
	"Ressonably Available Control Technology" (RACT) requirements apply this source?	no

No RACT guidelines for this type of surface coating operation.

cation for any answer of "No" that might be considered questionable.

Attach all supportive information related to any answer of "Yes". Attach any justifi-

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

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

See attachment #1, Part H

Conta		inents	Utilization	
Description	Type	X WE	Rate - lbs/hr	Relate to Flow Diagram
2 part polyurethane		0%/100%	20.2	Paint application
2-part acrylic enam	iel VOC/Partic	° 0%/100%	10.0	Paint application
2 part epoxy prime:		0%/100%	2.4	Paint application
conventional prime	VOC/Partic	0%/100%	0.8	Paint application
s stems	V00/D+	00/11000/	22.00	Thinner for paint applic

Thinners VOC/Partic. 0%/100%

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

1	Total Proces	s Input Rate	(lbs/hr):	 ·
				•

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	Emiss	ionl	Allowed ² Emission Rate per	asion Allowable ³	Potential ⁴ Emission		Relate to Flow
ontaminant	Maximum lbs/hr	Actual T/yr	Rule 17-2	lbs/hr	lbs/yr	T/yr	Diagram
y d :	23.8	49.5			99,000	49.5	
Particulate	0.93	1.94			79,000	39.5	
) <u> </u>			
				and the state of t			
				,			

¹See Section V, Item 2.

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

ference 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)

³ loulated from operating rate and applicable standard.

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

D. Control Devices: (See Section V, Item 4	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 arres.typ	e Particulate	95%	N/A	Manufac Spec
Filters model #29-893				
Filter Bank dimension			·	
2 filter banks				
6.7 ft. x 13.3 ft. fo	•			
a total of 178 sq. f				·

E. Fuels N/A

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

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

Fuel Analysis:				
Percent Sulfur:	•	·	Percent Ash:	
Density:		lbs/gal	Typical Percent Nitrogen:	
Heat Capacity:		8TU/15	<u> </u>	BTU/ga]
Other Fuel Conta	minents (which	may cause air	pollution):	<u> </u>
		as a re-		

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

Annusl Average _____ Maximum _____

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

SECTION Nete:ACFM_24,250DSCFN Gas Exit Temperatures_ambient	- Flor P	ht:	35'		ft. St	ack Diamet	er: <u>3.5</u>	rt
See Attachment 1, Part I. SECTION IV: INCINERATOR INFORMATION N/A Tope of Type 0 (Plastics) (Rubbish) (Refuse) (Garbage) (Patholog-lique Gas-lical) Attual lo/hr notiner-lited (los/hr) Stription of Waste tal Weight Incinerated (los/hr) Design Capacity (los/hr) Design Capacity (los/hr) Design Capacity (los/hr) Design Capacity (los/hr) N/A Type V Type V Type V (Lique Gas-lical) Ry-prod.) Stription of Waste tal Weight Incinerated (los/hr) Design Capacity (los/hr) Design Capacity (los/hr) Nodel No. Volume (ft) ³ Heat Release Fuel Temperature (*F)	ė LTOM Y	ate:	ACFH_ 24	4,250	_DSCFM G	a Exit Tem	pereture: am	bient •F
SECTION IV: INCINERATOR INFORMATION N/A Tope of Type 0 Type I Type II Type III Type IV (Liq.& Gas Sy-prod.) Attual lother coinerted lacon telled lother coinerted al Weight Incinerated (lbs/hr) Design Capacity (lbs/hr) Design Capacity (lbs/hr) Design Capacity (lbs/hr) Model No. Volume Heat Release Fuel Temperature (PT) N/A Type VI Type VI Type VI Type VI (Liq.& Gas Sy-prod.) Type VI	r Vapo	r Content:	ambient		ж у	locity: _	!	42.1 FP
pe of Type U Type II Type III Type IV (Liq.& Gas Solid By-prod.) tual b/hr cinerated (lbs/hr) Design Capacity (lbs/hr) pxisats Number of Hours of Operation per day day/wk wks/yr. Ufacturer Constructed Heat Release Fuel Temperature (ft) Type VI Type VI Type VI (Liq.& Gas By-prod.) Temperature (ft) Type II Type IV Type VI Type VI (Liq.& Gas By-prod.) Type VI Type VI Type VI Type VI (Liq.& Gas By-prod.) Type VI Typ	c₄" wate	er static p						• • •
tual bb/hr ciner- ted con- siled a/hr) ription of Waste al Weight Incinerated (lbs/hr) pximate Number of Hours of Operation per day day/wk wks/yr ufacturer Constructed Heat Release Fuel Temperature (ft)3 (BTU/hr) Type BTU/hr (°F)			SECT	ION IA:	INCIMERATO	R INFORMAT	N/A	
tual b/hr cciner- ted al Weight Incinerated (lbs/hr) pximate Number of Hours of Operation per day day/wk wks/yr. Constructed Hodel No. Volume (ft) 3 Heat Release Fuel Temperature (st) 4 (,		Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)			
con- colled s/hr) ription of Waste al Weight Incinerated (lbs/hr) Design Capacity (lbs/hr) pximate Number of Hours of Operation per day day/wk wks/yr. ufacturer Constructed Model No. Yolume Heat Release Fuel Temperature (*ft) (*F)	b/hr ciner-							
al Weight Incinerated (lbs/hr) Design Capacity (lbs/hr) pximate Number of Hours of Operation per day day/wk wks/yr ufacturer	alled	- 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 		2				
Volume Heat Release Fuel Temperature (#t) (#TU/hr) Type BTU/hr (*F)	_ ufacture E	er		·	·.		·	
(ft) (BTU/hr) Type BTU/hr (°F)	Constr	cucted	·	-	Model	No		•
			Volume (ft)3					Temperature (*F)
		namber						
	ary Ch							
K Height: ft. Stack Diamter: Stack Temp		Chamber					Stack T	emp
low Rate:ACFMDSCFM+ Velocity:F	ndary		rt. s	tack Diam	rer:			
>0 or more tons per day design capacity, submit the emissions rate in grains per sta d cubic foot dry gas corrected to 50% excess air.	undary k Heigh	nt:	rt. s	·		DSCFM*	Velocity: _	FP:
of pollution control devicer [] Cyclone [] Wet Scrubber [] Afterburner [] Other (specify)	theight low Ra	nt:	er day desi	ACFM	.ty, submi	t the emis	_	

7.7						,					
¢.				٠						,	
						· · · · · · · · · · · · · · · · · · ·					
Ultimate disposal (ash, etc.):	of any	effluent	other	than	that	emitted	from	the	stack	(ac rubber	water
•											
						.==					

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

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

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9The appropriate application fee	· in ecor	lanca with	Pla 17-4 05	The check	c should be
made payable to the Department					
10. With an application for operation struction indicating that the permit.					
		•			
SECTION VI:	BEST AVAIL	ABLE CONTRI	OL TECHNOLOGY	ويستده با	
A. Are standards of performance fo applicable to the source?	r new stai	tionary sou	irces pursuan	t to 40 C.F.	.R. Part 60
[] Yes [] No	~ 1		,		
Contaminant			Rate or Co	ncentration	
	~				
B. Has EPA declared the best availyes, attach copy)	lable cont	rol techno	logy for thi	s class of s	sources (If
[] Yes [] No	* .	•	•	• . •	· ·
E Conteminant			Rate or Co	ncentration	
			•		
		-			
			-		
C. What emission levels do you pro	pose as be	st availab	le control te	chnology?	
Contaminant	•	•	Rate or Co	ncentration	, . ,
				* * . ,	<u> </u>
				•	
	*				
D. Describe the existing control as	nd treatme	nt technolo	ogy (if any).		£ ,
_ l. Control Device/System:			ing Principle	88:	
3. Efficiency:*	•	4. Capita	_		
*Emplain method of determining				4	
	•				*
DEW Form 17-1.202(1) Effective November 30, 1982	Page	8 of 12			* v:

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

Page 9 of. 12

DER Form 17-1.202(1)

Effective November 30, 1982

- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space, and operate within proposed levels:
- 3.
 - a. Control Device:

b. Sperating Principles:

c. Efficiency: 1

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:²

- h. Waintenance Cost:
- i. Availability.of. construction materials and process chemicals:
- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space, and operata within proposed levels:
- 4.
- a. Control Device:

b. Operating Principles:

c. Efficiency: 1

d. Capital Costs:

e. Useful Life:

f. Operating Cost:

a. Energy: 2

- h. Maintenance Cost:
- i. Availability of construction materials and process chemicals:
- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space, and operate within proposed levels:
- F. Describe the control technology selected:
 - 1. Control Device:

2. Efficiency: 1

3. Capital Cost:

4. Useful Life:

5. Operating Cost:

. Energy:²

7. Maintenance Cost:

- 8. Manufacturer:
- Other locations where employed on similar processes:
- a. (1) Company:
- (2) Mailing Address:
- (3) City:

- (4) State:
- ¹Explain method of determining efficiency.

 ²Energy to be reported in units of electrical power KWH design rate.
- DE Form 17-1.202(1)
- Effective November 30, 1982

(5) Environmental Manager:				
(6) Telephone No.:				
(7) Emissions: 1				
Contaminant			Rate or Concentra	tion
· ·	•		ware or concentra	
			· · · · · · · · · · · · · · · · · · ·	
(8) Process Rate: 1			<u>:</u>	
b. (1) Company:				
(2) Mailing Address:		•		
(3) City:		(4) State:		•
(5) Environmental Manager:				
(6) Telephone No.:			•	
(7) Emissions: 1				
Contaminant			Rate or Concentra	tion
Gan e 4 m 2 m 4 m 6 m 7 m 7 m 7 m 7 m 7 m 7 m 7 m 7 m 7		·		
:				
		 		
(8) Process Rate: 1	•		·	,
10. Reason for selection and	dagariatia	n af systams.		
Applicant must provide this info available, applicant must state SECTION VII -	the reason(s) why.	Should this inf	ormation not
. Company Monitored Data				•
1no. sites	TSP	()	S02+	Wind spd/dir
Period of Monitoring	month /	/ to	month day yea	.
Other data recorded				
Attach all data or statistica	l summaries	to this appli	ication.	
Specify bubbler (B) or continuou	s (C).		***.	<u>-</u>
DER Form 17-1.202(1) Effective November 30, 1982	Page	11 of 12		·

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2. Instrumentation, Field and Laborat	ory			
a. Was instrumentation EPA referenced	or its equival	ent? [] Yes	[] No	
b. Was instrumentation calibrated in	accordance with	Department p	rocedures?	
[]Yes []No []Unknown				,
 Meteorological Data Used for Air Quali	ty Modeling			٠.
1Year(s) of data from/		/ / nth day yea	-	· · · · · · · · · · · · · · · · · · ·
2. Surface data obtained from (location	.,		- 	
		,		
3. Upper air (mixing height) data obt		,		
4. Stability wind rose (STAR) data ob	tained from (lo	cation)		
Computer Models Used				
1.	Modif	ied? If yes,	attach descr	iption.
ż	Modif:	ied? If yes,	attach descr	iption.
3.	Modif	ied? If yes,	attach descr	iption.
4	Modif:	ied? If yes,	attach descr	iption.
Applicants Maximum Allowable Emission (Pollutant Emission 1 TSP		grams/sec		
and the same and t		-		
SO ² Emission Data Used in Modeling		_ grams/sec		· · ·
Attach list of emission sources. Emissocint source (on NEDS point number), Uand normal operating time.	sion data requi: TM coordinates,	red is source stack data,	name, descri allowable em	ption of issions,
Attach all other information supportive	e to the PSD re	view.		٠.
Discuss the social and economic impact ble technologies (i.e., jobs, payrol assessment of the environmental impact	l, production,	taxes, ener		
Attach scientific, engineering, and t nals, and other competent relevant info the requested best available control to	ormation describ	oing the theo	publications ry and applic	ation of
	ng nganggan			

DER Form 17-1.202(1) Ef**ec**tive November 30, 1982

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) $(7.26 lbs/gal) = 1.82$
Aceton e	(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 2-part acrylic enamel 2-part epoxy primer other primers	9100 gal/yr. 4680 gal/yr. 228 gal/yr. 83.2 gal/yr.	31.6 T/yr. 16.2 T/yr. 0.8 T/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: (8.62 gal/yr.) (7.26 lbs/gal) =
616.4 lbs/yr or 0.31 tons/yr from the unthinned portion of the primer.

1232.2 6.62

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: (0.62.4T/yr. from primer itself) + (0.29 T/yr. from thinning solvents) = <math>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*	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
	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% 55% 15% 10%	wooden furniture automotive type flat surfaces posts and frames	(50% flat-50% table leg surfaces) (100% flat type surfaces) (100% flat type surfaces) (99% table leg-1% bird cage type
10%	posts and frames	(99% table leg-1% bird cage type surfaces)

Table 4 - Composite Overspray Rates

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

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) = 17.7 tons (41.9 tons) (10% postsand frames) (85.1% overspray) = 3.57tons 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	1.20 tons/yr. 0.60 tons/yr.	23.9 tons/yr. 12.0 tons/yr.
2-part epoxy primer Total emitted from	0.14 tons/yr.	2.8 tons/yr.
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

	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 exhaust fans from Binks Manufacturing, model 30-4418 rated at 24,250 SCFM at WC static pressure (See Attachment #2)

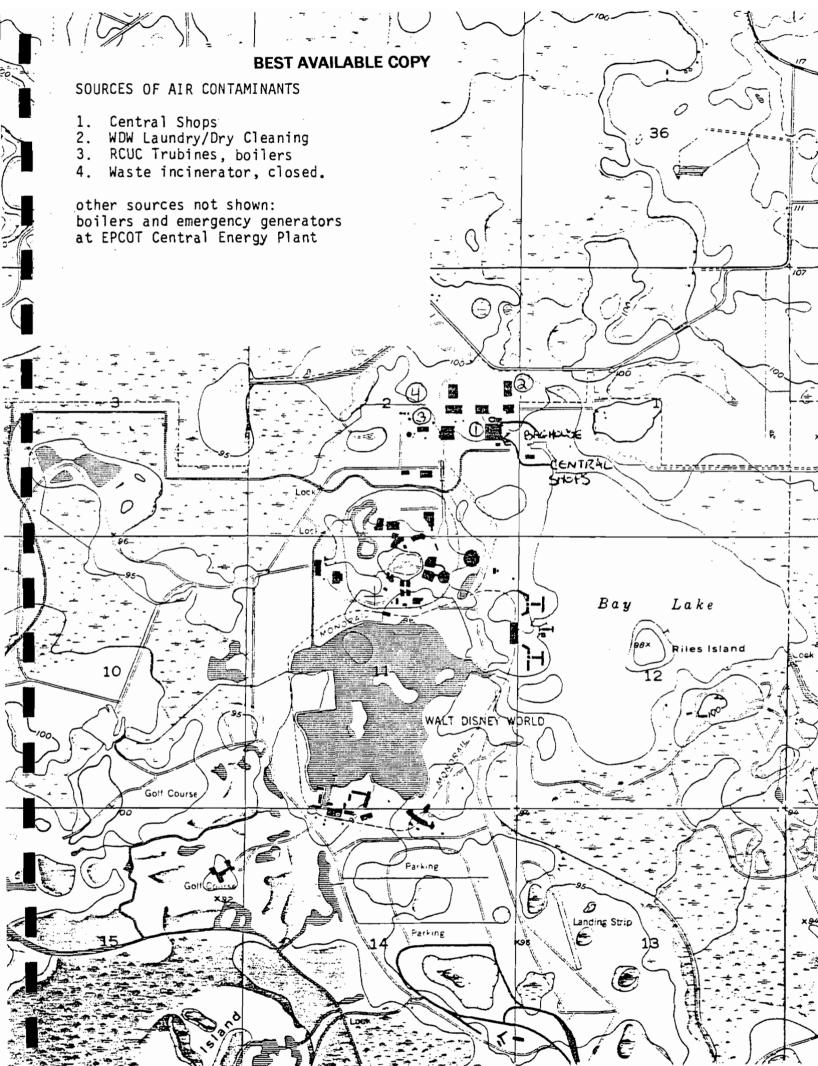
Total air flow from both fans 48500 SCFM at $\frac{1}{2}$ WC static pressure

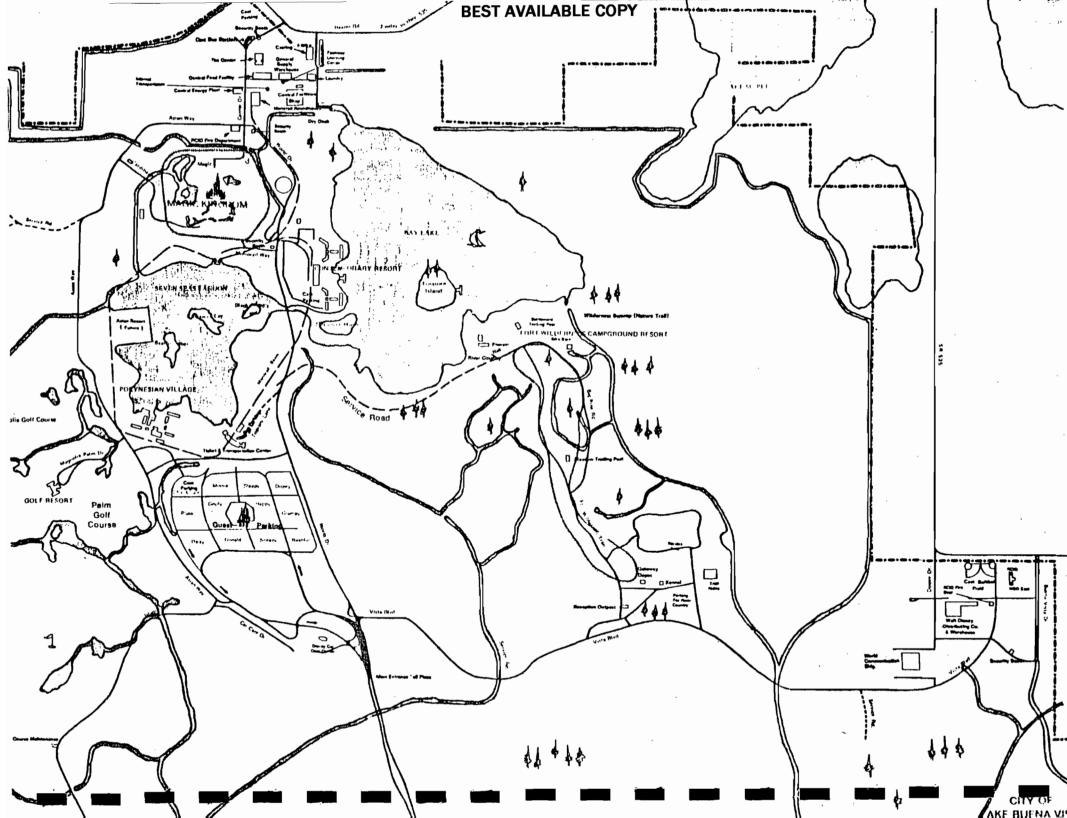
Stack diameter 3.5 ft.
radius 1.75 ft.
Cross sectional area of stack =
$$TTr^2 = (3.14)(1.75)^2 = 9.61$$
 sq. ft.
Air velocity from stack = $(24250 \text{ CFM} \div 9.61 \text{ sq. ft.})$
= 2523 FPM
= 42.1 FPS through each of two vents

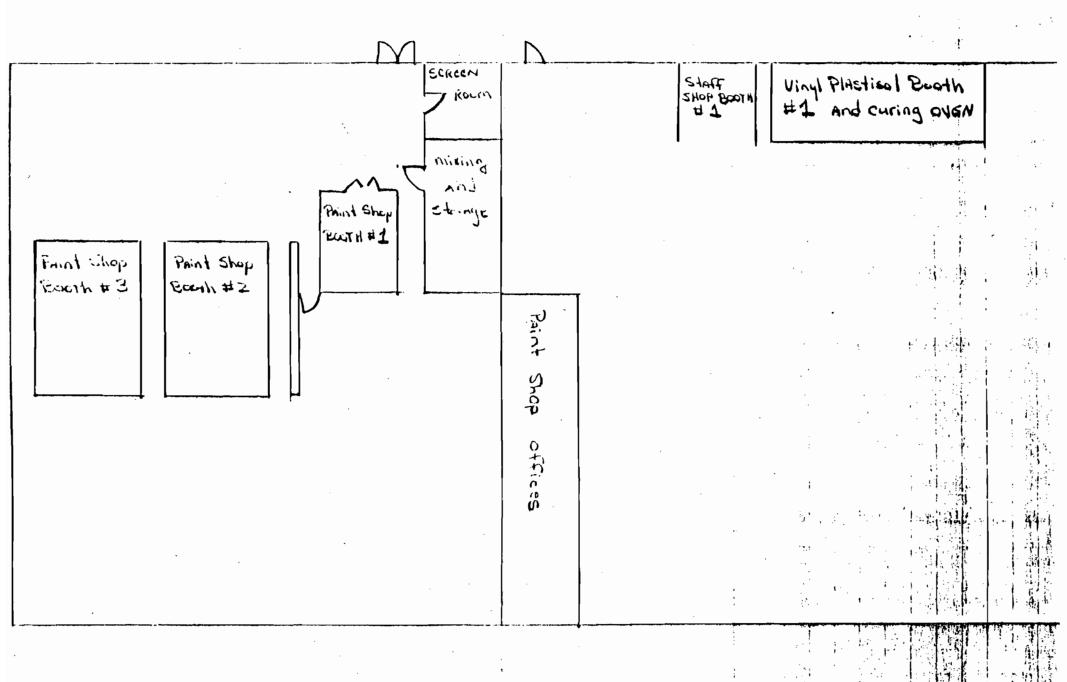
Attachment #2

Flow Diagram

AHACHMENT







SKETCH OF FACILITY LAYOUT, not to SCALE

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

	DEPARTMENT OF ENVIRONMENTAL RESULATION
Dis	JOHNS BIVER STRICT MAGUIRE BOUTEVARDS OCT 6 198 APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES
٠.	SOURCE TYPE: Spray Paint Booth [] New1 [] Existing1
	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)
	SOURCE LOCATION: Street Facilities Way City Bay Lake
	UTM: East 443506 North 3144309
	Latitude 28 ° 25 ' 32 "N Longitude 81 ° 34 ' 36 "W
	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
	A. 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 contro facilities in such a manner as to comply with the provision of Chapter 403, Florid Statutes, and all the rules and regulations of the department and revisions thereof. also understand that a permit, if granted by the department, will be non-transferable and I will promptly notify the department upon sale or legal transfer of the permitte establishment.
	*Attach letter of authorization Signed:
	Fdward B. Crowell V P Facilities Division Name and Title (Please Type)
	Bate: 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 the signed 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)

Page 1 of 12

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Reedy Creek Utilities Co., Company Name P.O. Box 40 Lake Buena Vistor Mailing Addres As Registration No. SECTION II, SEMERAL PROJECT INFORMATION Cacribe the nature and extent of the project. Nefer to poll and expected improvements in source performance as a result of whether the project will result in full compliance. Attach a becassary. Spray paint booth for coating a variety of objects including a niture, trash cans, ride components, posts and frames using part acrylic, epoxy primers and other primer coating system chedule of project covered in this application (Construction art of Construction existing booth Completion of Construction individual components/units of the project serving pollution or individual components/units of the project serving pollution on actual costs shall be furnished with the application.	MCKIM
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if power plant, hra/yr; if *sasonal, describe:	
If this is a new source or major modification, enswer the following quest	ions.
1. Is this source in a non-attainment area for a particular pollutent?	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 evailable control technology (BACT) apply to this source? If yes, see Section VI.	no
3. Does the State "Prevention of Significant Deterioristion" (PSD) requirement apply to this source? If yea, 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 "Reasonably Available Control Tachnology" (RACT) requirements apply to this source?	no
a. If yea, for what pollutents?	:

No RACT guidelines for this type of surface coating operation.

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

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

See Attachment #1, Part H Contaminants Utilization scription ____ Rate - 1bs/hr Relate to Flow Diagram Type 3 WE art polyurethaneVOC/Partic. 0%/100% Paint application Paint application 2-part acrylic ename1VOC/Partic 0%/100% art epoxy primer VOC/Partic. 0%/100% Paint application conventional prime systems VOC/Partic. 0%/100% Paint application

Thinners

VOC/Partic. 0%/100%

0/6/100/6

Thinner for paint application

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

1. Total Procese Input Rate (lbs/hr):_

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	Emiss	ionl	Allowed ² Emission Rate per	Allowable ³ Emission	Poten	tial ⁴	Relate to Flow
Centaminant	Maximum lbs/hr	Actual T/yr	Rule 17-2	lbs/hr	lbs/yr	T/yr	Diagram
V00	23.8	49.5		. :	99,000	- 49.5	,
Particulate	0.93	1.94			79.000	39_5	
1 .	·						
	,						

See Section V, Item 2.

 2 Reservance 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)

Casculated from operating rate and applicable standard.

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

ER orm 17-1.202(1)
ffective November 30, 1982

Page 4 of 12

D. Control Devices: (See Section V,	, Itam 4)
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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	95%	N/A	Mfg. Specs.
Filters model #29-893		- ·		
Filter Bank dimensions				
2 filter banks 6.7 x				
13.3 ft. for a total o	f			
178 sq. ft.				

ε.	Fuels	N/Δ

	Consum		
Type (Be Specific)	avg/hr	■ax./hr	Meximum Hest 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:ibs/gal	Typical Percent Nitrogen:
Heat Capacity: BTU/15	BTU/gal
Other Fuel Conteminants (which may cause air p	ollution):
المنافي والمنافي والمنافية	The state of the s

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

Annual Average ______ Maximum ____

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

ck Heig	;ht:	35'			ft.	Stack Dia	mete	r:		ft
			_ACFH			Gam Exit				
er Vapo	r Conter	it:an	nbient		%	Velocity			42.1	FF
4" W	atar sta	fic pro				See Atta		· . #1 · O-	rt I	:
ype of	Type (Plasti	call (Ru	ibbish)	Type II (Refuse)	Type (Garba	III Type ge) (Patho ica	1004	Type V (Liq.& Ge By-prod	s (Solid	By-prod.)
nel inr iner-				. 	a a segment of the		-			
olled (hr)	e Call and Car	-		<u> </u>		i				
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Ultimate d msh, etc.)		eny offluo	nt other ti	. 9	emitted f		(acrubber	water
	т.							
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- 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 acrubber include cross-section sketch, design pressure drop, etc.)
- 5. With construction permit application, attach derivation of control device(s) efficientry. 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.

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

	t, attach a Certificate of Completion of Companion to the construction of the construc
	LABLE CONTROL TECHNOLOGY ationary sources pursuant to 40 C.F.R. Part 4
applicable to the source?	gilbuary sources pursuant to 40 c
[]Yes []No	
Contaminant	Rate or Concentration
· · · · · · · · · · · · · · · · · · ·	
	and the second of the second o
Has EPA declared the best available con yes, attach copy)	trol technology for this class of sources ()
[] Yes [] No	
Contaminant	Rate or Concentration
· · · · · · · · · · · · · · · · · · ·	
<u> </u>	
What emission levels do you propose as be	est available control technology?
Contaminant	Rate or Concentration
· · · · · · · · · · · · · · · · · · ·	
· · · · · · · · · · · · · · · · · · ·	
Deacribe the existing control and treatme	ent technology (if any).
	2. Operating Principles:
•	
3. Efficiency: *	4. Capital Costs:

5. Useful Life: 6. Operating Costs: 7. Energy: · 8. Maintenance Cost: 9. Emissions: Conteminant Rate or Concentration 10. Stack Parameters Height: Diameter: ft. Flow Rate: ACFH d. Temperature: ۰F. Valocity: FPS Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary). l. Control Device: b. Operating Principles: c. Efficiency:1 d. Capital Cost: e. 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: 2. Control Device: Operating Principles: 1. Efficiency:1 Capital Coat: Useful Life: Operating Cost: Energy: 2 h. Maintenance Cost: 1. Availability of construction materials and process chemicals: ¹Explain method of determining efficiency. 2 Energy to be reported in units of electrical power - KWH design rate. DER Form 17-1.202(1)

Page 9 of 12

Effective November 30, 1982

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 Gapital Cost: 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: 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: Describe the control technology selected: Control Device: 2. Efficiency: 1 Capital Cost: Vaeful Life: Operating Cost: Energy: 2 Maintenance Coat: Manufacturer: Other locations where employed on similar processes: a. (1) Company: 2) Mailing Address: (3) City: (4) State: ain method of determining efficiency. Energy to be reported in units of electrical power - KWH design rata. ER orm 17-1.202(1)

Page 10 of 12

ff屍tive November 30, 1982

(5) 5 1-2-2-1	
(5) Environmental Manager:	
(6) Telephane Na.:	•
(7) Emissions: 1	
Contaminant	Rate or Concentration
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·	
(8) Process Rate: 1	
b. (1) Company:	
(2) Mailing Address:	
(3) City:	(4) State:
(5) Environmental Manager:	
(6) Telephone No.:	
(7) Emissions: 1	
Contaminant	Rate or Concentration
Concaminant	wata or concentration
(8) Process Rate: 1	
10. Reason for selection and descript	ion of systems:
Applicant must provide this information available, applicant must state the reaso	n(s) why.
SECTION VII - PREVENTIO	N OF SIGNIFICANT DETERIORATION
A. Company Monitored Data	•
lno. sites TS	P Wind spd/dir
Period of Monitoring	/ to
month	day year aonth day year
Other data recorded	
Attach all data or statistical summari	ea to this application.
*Specify bubbler (8) or continuous (C).	
DER Form 17-1.202(1)	ge 11 of 12
	·

2. Instrumentation, Field 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	delina
1 Year(s) of data from / /	4- / /
	year month day year
2. Surface data obtained from (location)	
	from (location)
4. Stability wind rose (STAR) data obtaine	•
•	
Computer Models Used	
	Modified? If yes, attach description
·	Modified? If yes, attach description
3	Modified? If yes, attach description
·	Modified? If yes, attach description
pplicants Maximum Allowable Emission Data cllutant Emission Rate	
TSP	grams/sec
50 ²	grams/sec
	grass, sec
mission Dats Used in Modeling	
ttach list of emission sources. Emission opoint source (on NEDS point number), UTM co	data required is source name, description of continuous attack data, allowable emissions
and normal operating time.	
ttach all other information aupportive to t	the PSD review.
iscuss the social and economic impact of the	he selected technology versus other applic
ele technologies (i.e., jobs, payroll, prossent of the environmental impact of the	roduction, taxes, energy, etc.). Inclu
We are the second of the secon	and the control of th
Attach scientific, engineering, and technicals, and other competent relevant informati	ion describing the theory and application o
he requested best available control technol	logy.
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ER Form 17-1.202(1)

Page 12 of 12

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	7.0 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) =	1.82
Acetone		(6.59 lbs/gal) =	
Ethyl Acetate	(0.10)	(7.51 lbs/gal) =	0.75
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 2-part acrylic enamel 2-part epoxy primer other primers	9100 gal/yr. 4680 gal/yr. 228 gal/yr. 83.2 gal/yr.	31.6 T/yr. 16.2 T/yr. 0.8 T/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:

 $[(9100 \text{ gal}) (6.94 \text{ lbs/gal})] \div 2,000 \text{ lbs/ton} = 31.6T/yr.$

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) =1.69.7 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 0.33 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: (0.62.4T/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* 2-part epoxy primer*	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
	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	<u>e</u>
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	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) = 13.7 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 Total emitted from	1.20 tons/yr. 0.60 tons/yr. 0.14 tons/yr.	23.9 tons/yr. 12.0 tons/yr. 2.8 tons/yr.
2-part systems	1.94 tons/yr.	3

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 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**	23.61bs/gal

Table 8 - Weight Percent of Contaminants

	₩eig	ht Percents	Source of
Type of Paint	VOC	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 30-4418 rated at 23250 SCFM at \(\frac{1}{2}\) WC static pressure (See Attachment \(\frac{4}{2}\))

Total air flow from both fans 48500 SCFM at 2" 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.

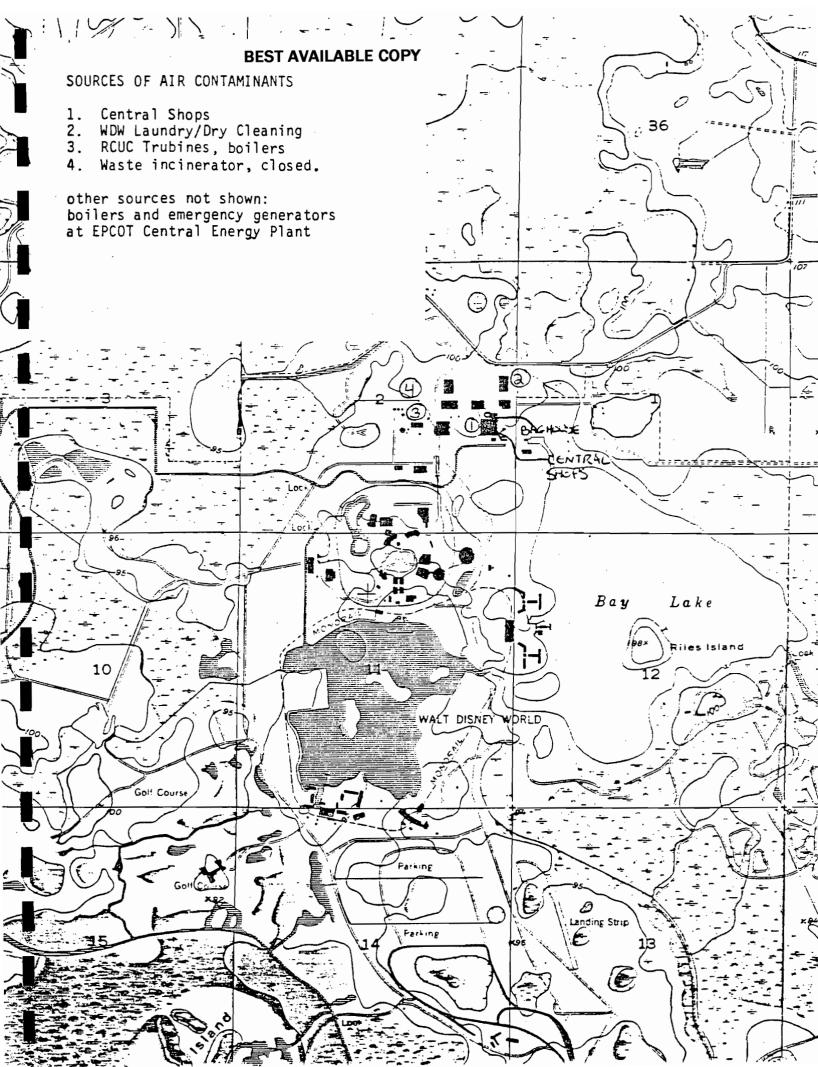
Air velocity from stack = (24,250 CFM; 9.61 sq. ft.)
= 2523 FPM
= 442.1 FPS through each of two vents

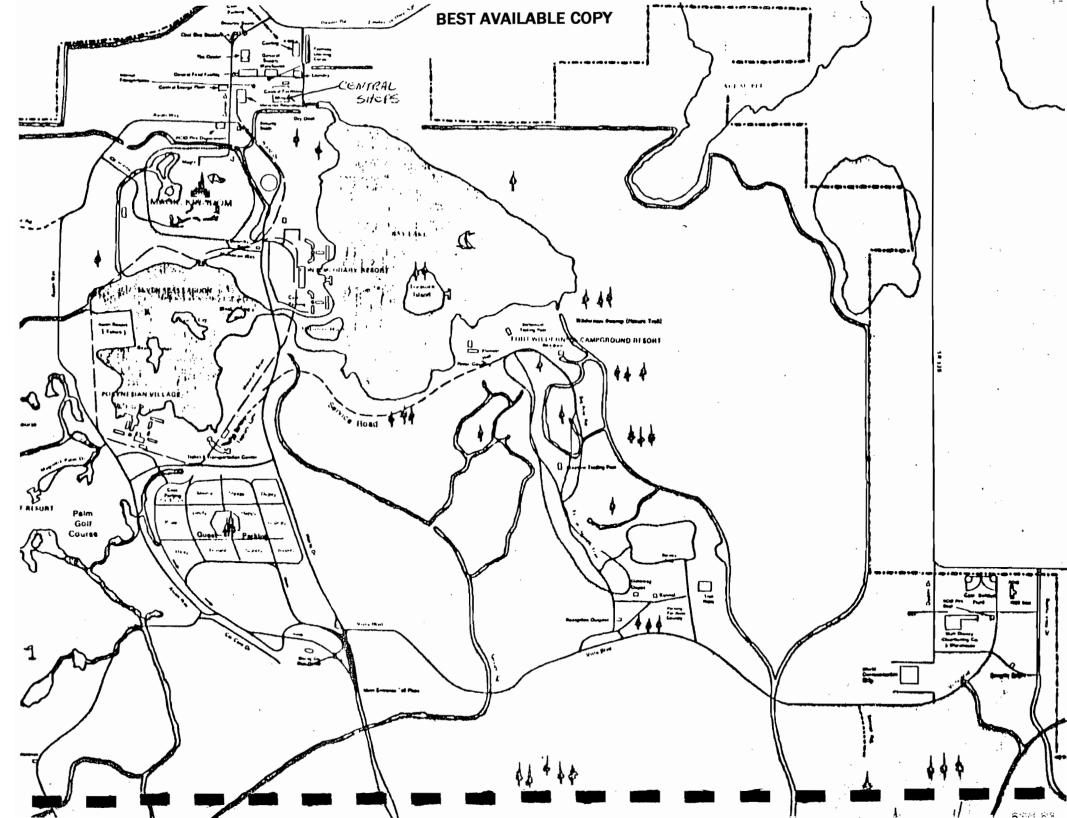
F10W Diaoram

AHACHOREOF

*EXHAUSI DUCT

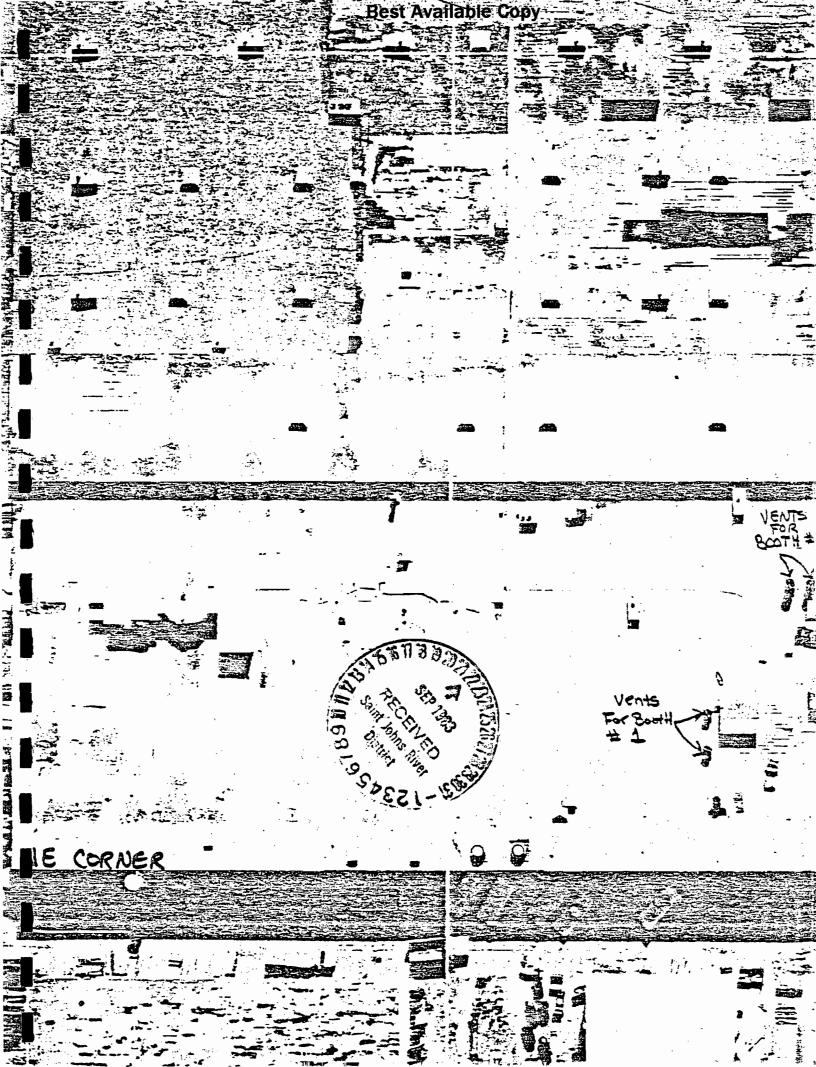
Attachment #3





SKETCH OF FACILITY LAYOUT, not to SCALE

BEST AVAILABLE COPY AERIAL PHOTO OF CENTRAL SHOPS roof showing VENT LOCATIONS 415 C



DA 110-7583 8

AC 48-108 143 STATE (OF FLORIDA
DEPARTMENT OF ENVIR	RONMENTAL REGIMENTION
ST. JOHNS RIVER DISTRICT 3319 MAGUIRE BOULEVARD E R SUITE 232 ORLANDO, FLORIDA 32803 OCT 6 1983 SAINT RIVER DISTR	SECHTAN SOME SOME SOME SOME SOME SOME SOME SOME
SOURCE TYPE: Spray Booth	CONSTRUCT AIR POLLUTION SOURCES [] New 1 [X] Existing 1
APPLICATION TYPE: [x] Construction []	
COMPANY NAME: WALT DISNEY WORLD Co., Inc	
Kiln No. 4 with Venturi Scrubber; Peaking	ce(s) addressed in this application (i.e. Lime NSA Staff Shop Unit No. 2, Gas Fired) Spray Booth #1
SOURCE LOCATION: Street Facilities Way	City Bay Lake
UTM: East 443558	North 314333
Latitude 28 ° 25 '	32 "N Longitude 81 • 34 • 36 "W
APPLICANT NAME AND TITLE: Edward B. Crowe	ell, V.P. Facilities Division
APPLICANT ADDRESS: P. O. Box 40 Lake Buer	na Vista, FL 32830
•	IS BY APPLICANT AND ENGINEER
A. APPLICANT	
I am the undersigned owner or authorize	zed representative* of WALT DISNEY WORLD Co.,In
I agree to maintain and operate the facilities in such a manner as to constitutes, and all the rules and regular also understand that a permit, if grant and the such as a such	this application for a construction to the best of my knowledge and belief. Furthe pollution control source and pollution control comply with the provision of Chapter 403, Flori ations of the department and revisions thereof. Intend by the department, will be non-transferable ment upon sale or legal transfer of the permitt Signed: Edward B. Crowell, V.P. Facilities Div Name and Title (Please Type)

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

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

Telephone No.

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

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

ollution sources.	on of the pollution control facilities and, if applicable,
-	Signed Soll // Cem
· · · · · · · · · · · · · · · · · · ·	TED W. MCKIM
	Name (Please Type)
	Keedy Creek Utilities CO.
•	PO. Box 40 Lake BueNA Vista 74
. 2.⊶	Mailing Address (Please Type)
ida Registration No. <u>45</u>	555 Date: 9/21/83 Talephone No. 305-824-495
SEC	TION II: GENERAL PROJECT INFORMATION
nd expected improvement	extent of the project. Refer to pollution control equipment, a in source performance as a result of installation. State result in full compliance. Attach additional sheet if
Installation of Binks	Manufacturing model PFF type spray booth with model 30-800
fan rated at 24,800 SC	FM to be used for spraying polyester resin systems, laquer
·	ers, and polyvinyl alcohol on fiberglass objects and molds.
based primers and seal	
based primers and seal	ers, and polyvinyl alcohol on fiberglass objects and molds.
chedule of project coverage that of Construction expenses of pollution control or individual components	ers, and polyvinyl alcohol on fiberglass objects and molds. red in this application (Construction Permit Application Only)
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hased primers and seal hased primers and seal hased primers and seal has had been been been been been been been bee	ers, and polyvinyl alcohol on fiberglass objects and molds. red in this application (Construction Permit Application Only) isting booth Completion of Construction ol system(s): (Note: Show breakdown of estimated costs only solution of the project serving pollution control purposes. sts shall be furnished with the application for operation

this is a new source or major modification, answer the following quest	ions.
 or No) 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	
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 Pollutents" (NESHAP) apply to this source?	no
Reasonably Available Control Technology* (RACT) requirements apply his source?	no
a. If yes, for what pollutants?	

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

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

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

	Contaminants		Utilization		
De cription	Туре	s Wt	Rate - lbs/hr	Relate to Flow Diagram	
polyester gelcoat	VOC/Partic.	0/100	0.4		
Laquer based prime	rs VOC/Partic	56/44	0.1		
orvinyl alcohol	VOC/Partic.	0/100	0.1		
ene (thinner)	VOC/Partic.	0/100	0.02		
ce one (thinner)	VOC/Partic.	100/0	0.02		

Pr	ocess Rate, if applicable:	(See Section V, Item 1)	
1.	Total Process Input Rate	(lbs/hr):	
■.	Product Weight (lbs/hr):		

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

ame of	Emission		Allowed ² Emission Allowable ³ Rate per Emission	Potential ⁴ Emission		Relate to Flow	
Comment	Maximum lbs/hr	Actual T/yr	Rule 17-2	lbs/hr	lbs/yr	T/yr	Diagram
0C	0.08	0.08	,		166	0.08	
articulate	0.02	0.02			586.4	0.29	
1			1			-	

ee_Section V, Item 2.

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

al lated from operating rate and applicable standard.

 $\exists i$ ssion, if source operated without control (5ee Section V, Item 3).

* (17-1.202(1) factive November 30, 1982

D.	Control	Devices:	(See	Section	٧.	Item	4)
•		D G 7 1 C G G .	(300	00,000.	٠,		~ ,

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

	Type (Be Specific)	Consumption≠			
		avg/hr	max./hr	Maximum Heat Input (MMBTU/hr)	
	_	<u>.</u>			
	_				

PUnits: Natural Gas--MMCF/hr; Fuel Dils--gallons/hr; Coal, wood, refuse, other--lbs/hr.

Fuel Analysis: Percent Sulfur:		Percent Ash:	
		Typical Percent Nitrogen:	
Heat Capacity:	BTU/16		8TU/ga]
Other Fuel Conteminants (which	may cause air b	01146100):	
Sther Fuel Contaminants (which			
	e percent of fue	l used for space heating.	

ta k Heig	ht:	35		ft.	Stack D	iamete	r: <u>3.5</u>	rt
as low R	ate:	ACFH_2	4,800*	DSCFH	Gas Exi	t Temp	erature: a	mbient •F
								FP
	W.C. static	pressure						
Tes of Waste		Type I (Rubbiah)	Type II (Rafuse)	Type (Garba	ge) (Psti	nolog-	Type V (Liq.& Gas By-prod.)	Type VI (Solid By-prod.)
Actual 15/hr nomer- awed								·
Use on- trulled lbs/hr)								•
uscture	or							wks/yr
e Const	ructed	<u> </u>		Node	1 No			
-		Volume (ft) ³	Heat R		Туре	Fuel	BTU/hr	Temperature (°F)
			(515)	,				
imary Ch	smber .							
condary	Chamber							
ck Heigh	t:	ft. 5	tack Diam	ter:			_ Stack Te	
low Ra	te:		ACFH		DS	CFM+ Y	elocity:	FPS
SO or a	ore tone pe foot dry ga	er day desi as corrects	gn capaci d to 50%	ty, sub	mit the	saissi	ons rate in	græins per stan-
3310								
•			•					erburner

	posal of	any offluon	t other th	an that e	eitted fr	om the s	tack ((scrubber wa	ater
	posal of	any effluen	t other th	an that e	witted fr	om the s	stack ((acrubber wa	ater
	posal of	any effluen	t other th	an that e	witted fr	om the s	itack ((acrubber wa	ater
ltimate dis sh, etc.):	posal of	any effluen	t other th	an that e	eitted fr	om the a	stack ((acrubber wa	ater

SECTION Y: SUPPLEMENTAL REQUIREMENTS

lesse provide the following supplements where required for this application.

- 1. Total process input rate and product weight -- show derivation [Rule 17-2.100(127)]
- 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 ecrubber include cross-section sketch, design pressure drop, etc.)
- 5. With construction permit application, attach derivation of control device(s) efficien
 zy. Include test or design data. Items 2, 3 and 5 should be consistent: actual emis
 sions = 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.
- 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 atructures and roadways (Example: Topy of relevant portion of USGS topographic map).
- . An 8 1/2" x 11" plot plan of facility showing the location of sanufacturing processes and outlets for airborns emissions. Relate all flows to the flow diagram.

ER Form 17-1.202(1) [ffective November 30, 1982

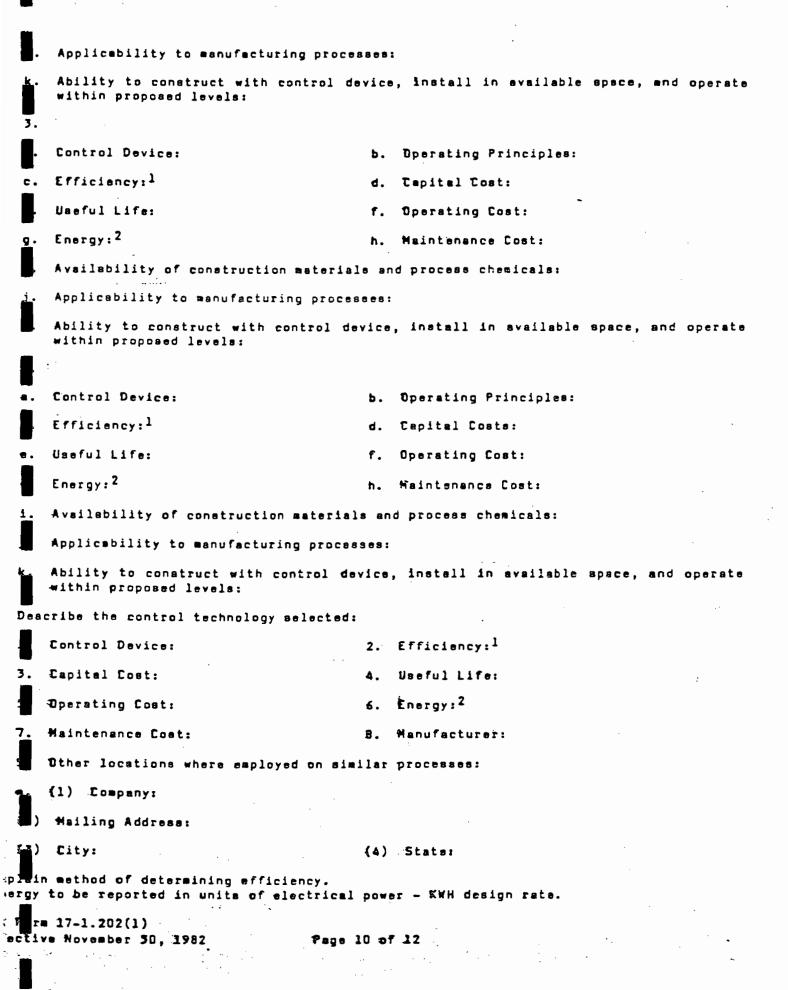
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factive November 30, 1982

Useful Life: 6. Operating Costs: R. Maintenance Cost: 7. Energy: Emissions: Contaminant Rate or Concentration 10. Stack Parameters ft. b. Diameter: Height: ft. ACFH d. Flow Rate: Temperature: oF. FPS e. Velocity: Describe the control and treatment technology available (As many types as applicable. use additional pages if necessary). 1. Control Device: Operating Principles: Efficiency: 1 Capital Cost: c. 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: 2. Control Davice: Operating Principles: c. Efficiency:1 Capital Cost: d. Uneful Life: Operating Cost: g. Energy:2 f. Maintenance Cost: Availability of construction materials and process chemicals: Explain method of determining efficiency. Energy to be reported in units of electrical power - KMH design rate. PER Form 17-1.202(1)

Page 9 of 12

Effective November 30, 1982



(6) Telephone No.: (7) Emissions: Conteminant (8) Process Rate: b. (1) Company: (2) Mailing Address: (3) City: (5) Environmental Manager: (6) Telephone No.: (7) Emissions: Contaminant (8) Process Rate: 10. Reason for selection and description of policant must provide this information when sailsble, applicant must state the reason(s)	Rate or Concentration (4) State:
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10. Reason for selection and description of plicant must provide this information when	<u> </u>
plicant must provide this information when	
olicant must provide this information when	of systems:
SECTION VII - PREVENTION OF	why.
Company Monitored Data	
1no. sitesTSP	() 50 ² * Wind spd/dir
	y year month day year
Other data recorded	
Attach all data or statistical summeries to	this application.
scify bubbler (B) or continuous (C).	
Form 17-1.202(1)	

•

2.	Instrumentation, field and Laboratory
a .	Was instrumentation EPA referenced or its equivalent? [] Yas [] No
b .	Was instrumentation calibrated in accordance with Department procedures?
	[] Yes [] No [] Unknown
Het	eorological Data Used for Air Quality Modeling
	Year(s) of data from / / to // month day year
	Surface data obtained from (location)
3.	Upper air (mixing height) data obtained from (location)
ı.	Stability wind rose (STAR) data obtained from (location)
Com	puter Models Used
	Modified? If yes, attach description.
2.	Modified? If yes, attach description.
	Modified? If yes, attach description.
4.	Modified? If yes, attach description.
	ach copies of all final model runs showing input data, receptor locations, and prin- le output tables.
р	licents Maximum Allowable Emission Data
Poli	Lutant Emission Rate
1	SP grams/sec
. s	grams/sec
is	sion Data Used in Modeling
Į in	ch list of amission sources. Emission data required is source name, description of t source (on NEDS point number), UTM coordinates, stack data, allowable emissions, normal operating time.
Atta	ch all other information supportive to the PSD review.
ble	uss the social and economic impact of the selected technology versus other applicatechnologies (i.e., jobs, payroll, production, taxes, energy, etc.). Include sament of the environmental impact of the sources.
mala	ch acientific, engineering, and technical material, reports, publications, jour-, and other competent relevant information describing the theory and application of requested best available control technology.
Form	17-1.202(1)

ective November 30, 1982

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	Density (1bs/gal)	Rate (1bs/jhr.)
polyester gelcoat	2. gal 0.5 gal 0.5 gal 0.1 gal 0.1 gal	8.0	0.4
laquer based primers		7.9	0.1
polyvinyl alcohol		7.26	0.1
styrene (thinner)		7.52	0.02
acetone (thinner)		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 (01 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 (state 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

C. Calculation of Actual and Potential Emissions for Particulate

Material	% Solids (by wt.)	Utilization Rate (lbs/hr.)
polyoctom golcost	100	.0.4
polyester gelcoat polyvinyl alcohol	100	0.4. 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:

(Utilization rate) (fraction of solids) (fraction of overspray) = (potential emissions)

Sample calculation fee for laquer based primers:
(0.101bs/yr.) (.439) (.50) = 0.02 lbs/hr.
(0.02 lbs/hr.) (8 hr/day) (5 day/wk) (52 wk/yr.) = 45.6 lbs/yr.
= 0.02 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 laquer based primers:

(Potential Emissions) (1-filter efficiency) = actual emissions (45.6 lbs/yr.) (.20) = 9.1 lbs/yr. = 0.005 T/yr.

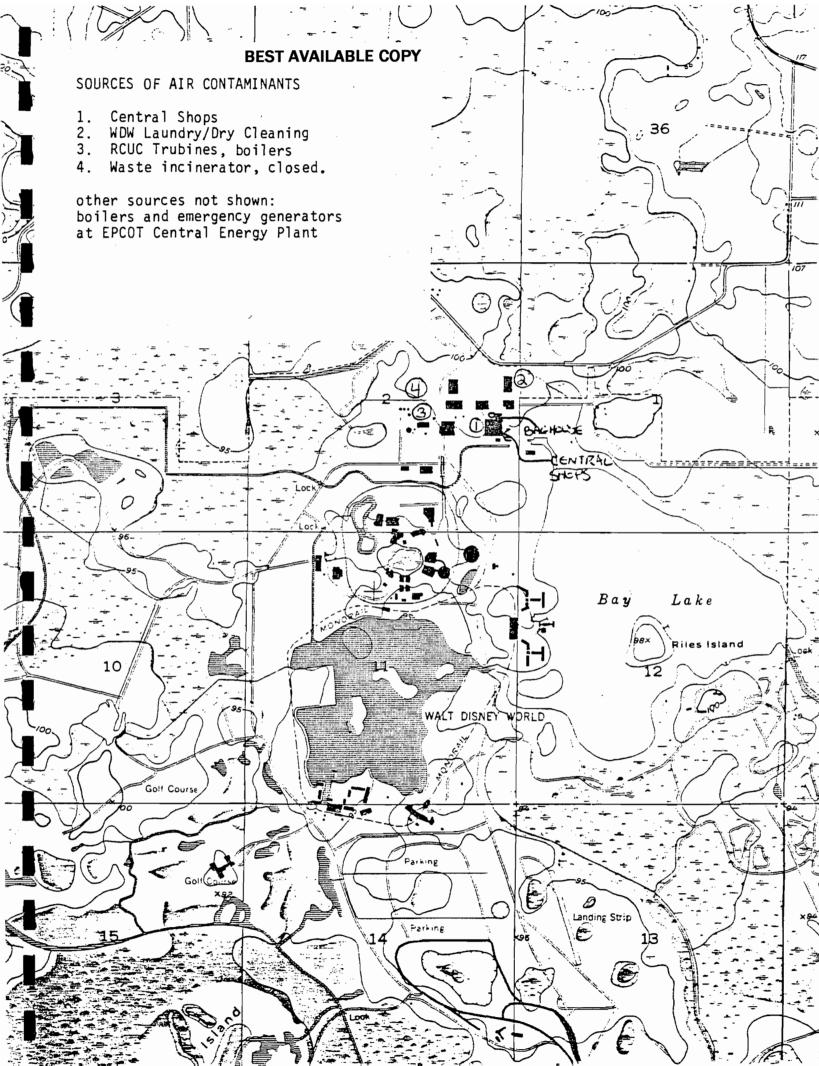
<u>Material</u>	Actual Emissions	Potential Emissions
polyester gelcoat laquer based primers polyvinyl alcohol styrene acetone Total:	20.8 lbs/yr. 9.1 lbs/yr. 5.2 lbs/yr. 1.0 lbs/yr. 0 36.1 lbs/yr. 0.02 T/yr.	416 lbs/yr. 45.6 lbs/yr. 104 lbs/yr. 20.8 lbs/yr. 0 586.4 lbs/yr. 0.29 T/yr.

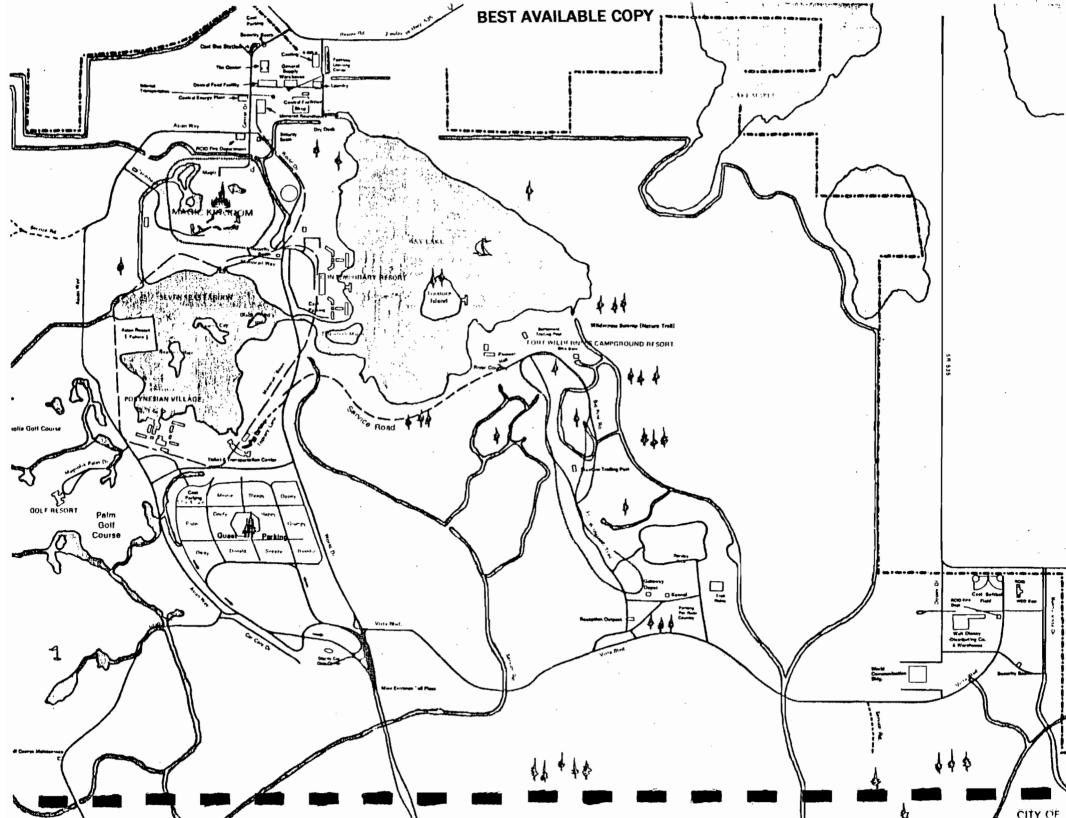
Attachment #2

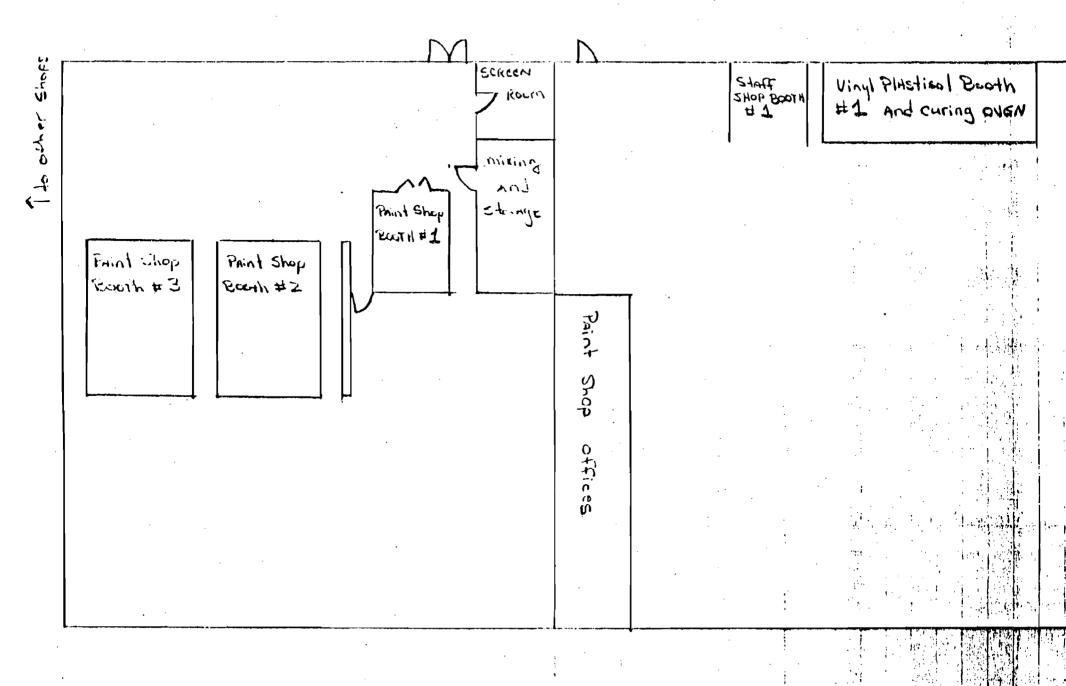
EXHAUST DUCT > DIAMETER 3.5 F+ AIR FLOW 24,800 CFM EXHAUST FAN VELOCITY 43 FPS INTAKE FILTERS EXHAUST FILTERS Binks model 29-893 paint ARRESTOR Filters direction of Air Flow object being conted

F10W Diagram

2txchaent







SKETCH OF FACILITY LAYOUT, not to SCALE

AC48-108744

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STATE OF FLORIDA AC 48-75837

DEPARTMENT OF ENVIRONMENTAL REGULATION

DEI ARTIMENT OF EIGHT	110 MILITIAL	TIEGOLATION
ST. JOHNS RIVER DISTRICT 2319 MAGUIRE BOULEVARD SUITE 2339 MAGUIRE BOULEVARD SUITE 2339 MAGUIRE BOULEVARD SEP 2 2 1983 SEP 2 2 1983 SAINT DISTRICT APPRICATION TO OPERATE SOURCE TYPE: Spray Booth	CONSTRUCT AIR	BOB GRAHAI GOVERNO TORIA J. TSCHINKE SECRETAR DISTRICT MANAGE POLLUITAN SOURCES [] Exting!
APPLICATION TYPE: [X] Construction []	Operation []	Modification
COMPANY NAME: WALT DISNEY WORLD Co. Inc	2	COUNTY: Orange
Identify the specific emission point sou Kiln No. 4 with Venturi Scrubber; Peakin	rce(s) addresse	in this application (i.e. Lime
SOURCE LOCATION: Street Facilities Way		City_Bay Lake
UTM: East 443586		North 314436
Latitude 28 ° 25 '	<u>32</u> "א	Longitude 81 ° 34 ' 36 'W
APPLICANT NAME AND TITLE: Edward B. Crow	vell, V.P. Facil	ities Division
APPLICANT ADDRESS: P. O. Box 40 Lake B	Ruena Vista FL	32830
SECTION I: STATEMEN		
A. APPLICANT		
I am the undersigned owner or author:	ized representat	ive* of WALT DISNEY WORLD Co
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 constitutes, and all the rules and regulates understand that a permit, if grand I will promptly notify the department of the stablishment. *Attach letter of authorization	this application to the best of e pollution corresponds with the lations of the detanted by the detant upon sale Signed: Edward B. Crow	on for a Construction my knowledge and belief. Further strol source and pollution control provision of Chapter 403, Flori epartment and revisions thereof. epartment, will be non-transferable or legal transfer of the permitt well, V.P.= Facilities Division d Title (Please Type)
	Date:	Telephone No. (305) 823-7700
B. PROFESSIONAL ENGINEER REGISTERED IN F	LORIDA (where r	equired by Chapter 471, F.S.)
This is to certify that the engineering been designed/examined by me and for principles applicable to the treatment.	ound to be in c	conformity with modern engineering

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

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

permit application. There is reasonable assurance, in my professional judgment, the

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 maintanance and operation of the pollution control facilities and, if applicable, modellution sources.
To My Innel
Signed 100 / Com
Name (Please Type)
Reedy Creek Utilities CD
Company Name (Please Type)
P.O. Box 40 LAKE BUENA UISTA, 7 Mailing Address (Please Type)
Ada Registration No. 25555 Date: 9/21/83 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 hether the project will result in full compliance. Attach additional sheet if ecessary.
Construction of built-in spray booth with a new york blower model #S48-1 rated at
9,000 CFM for spray coating fiberglass molds and objects with polyester resin
system, laquer based primers, and polyvinyl alchohol
government and purgy my rate are no no records
chedule of project covered in this application (Construction Permit Application Only) Start of Construction existing booth
oets of pollution control system(s): (Note: Show breakdown of estimated costs only or individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)
5
andicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.
ermit application called in by Chick 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	ions.
	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 (ozone)	
2.	Does best available control technology (BACT) apply to this source? If yea, 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
١.	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
	"Reasonably Available Control Technology" (RACT) requirements apply this source?	
	a. If yes, for what pollutants?	

SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)
Raw Materials and Chemicals Used in your Process, if applicable:

	Conteminants		Utilization		
Description	Type	% Wt	Rate - lbe/hr	Relate to Flow Disgram	
olyester gelcoat	VOC/Partic	0/100	3.6		
agur based prime	VOC/Partic	56/44	0.9		
olyvinyl alcohol	VOC/Partic	0/100	0.8		
nym ne (thinner)	/ VOC/Partic	0/100	0.2	,	
etone (thinner)	VOC/Partic	100/0	0.1		

	Total Process Input Rate (lbs/hr):		
2	Product Walant (15-15-)	•	

rborne Contaminants Emitted: (Information in this table must be submitted for each submits on point, use additional sheets as necessary)

Name of	Emiss	ionl	Allowed ² Emission Rate per	Allowable ³ Emission	Poteni Emis:		Relate to Flow
on sminent	Maximum lbs/hr	Actual T/yr	Rule 17-2	lbs/hr	lbs/yr	T/yr	Diagram
oc	0.61	0.63			1258	0.63	
rteulate	0.15	0.16			200	2.6	
						. ·	

e Section V, Item 2.

Eculated from operating rate and applicable standard.

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

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

Ect = 17-1.202(1) ect va November 30, 1982

Page 4 of 12

for the special composition of and standards and units (e.g. Rule 17-2.600(5)(b)2. Table II, (i.e. \sim 0.1 pounds per million BTU heat input)

		ontaminant	Eff	ficiency	(in m	ollected icrons) licable)	Basis for Efficiency (Section Y Item 5)
Binks Paint Arrestor	Part	ticulate	80% 1	or laquers			Mfg. Spec.
type filter model 29-893 filter			95% 1	or 2part s	ys.		Mfg. Spec.
Bank dimensions: 13.3-ft x 25 ft or 333 ft?							
. Fuels				·		:	
Type (Be Specific)	avg/hr		ption*	./hr		Heat Input
					.,	\\ni	BIO/HE)
	-						
Jnits: Natural GasM	4CF/hr	; Fuel Oils	gall	ons/hr; Ca	al, wood, r	efuse, othe	rlbs/hr.
ercent Sulfur:				Percent /	lsh:		
		1					
eat Capacity:							
ther Fuel Contaminant	whi	ch may caus	e air	pollution):	l		
. If applicable, ind:	icate	the percent	of fu	el used for	space hea	ting.	
nnual Average			#	aximum			
Indicate liquid or	solid	wastea gen	ersted	and method	of dispos	a1.	
•							

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

						5 ft. x		f
Flow Rate:	ACFM_	29,000	_DSCFM	Gas Exi	t Temp	erature: a	mbient	•
W.C. static	ont: <u>ambient</u> pressure		x	Velocit	y:	28.4		F
1	SEC	TION IV:	INCINER	ATOR INF	ORMATI	BN		
Type of Type (Plast	O Type I ics) (Rubbish	Type II) (Refuse)	Type (Garba	ge) (Pati	holog-	Type V (Liq.& Gas By-prod.)	(Solid By-	I orod.
tual le/hr nciner- mted								
incon- polled ps/hr)								
al Weight Inci	nerated (lbs/	nr)		Desig			•	
ximate Numbe			per de	у	day/	rk	wks/yr	
ximate Number nufacturer							<u>.</u>	
ximate Numbe			Mode				<u>.</u>	
ximate Numberufacturer	Volume	Hest Re	Mode	bl No			Temperatur	
ximate Numberufacturer	Volume (ft) ³	Hest Re	Mode	bl No			Temperatur	
ximate Number	Volume (ft) ³	Hest Re (BTU)	Mode	Type	Fuel	BTU/hr	Temperatur (°F)	e
constructed Sary Chamber	Yolume (ft)3	Hest Re (BIU)	Mode	Type	Fuel	BTU/hr Stack Te	Temperatur (°F)	e
ximate Number ufacturer Constructed ary Chamber condary Chambe Height:	Yolume (ft) ³ ft.	Hest Re (BTU) Stack Disa ACFM	Mode	Type DS	Fuel CFM+ V	Stack Te	Temperatur (°F)	• FP

ER orm 17-1.202(1) Pfactive November 30, 198

Page 6 of 12

Br.	ief description of operating characteristics of control devices:
J	
Ul (timate disposal of any effluent other than that emitted from the stack (scrubber water, h, etc.):
NOT	E: Items 2, 3, 4, 6, 7, 8, and 1D in Section V must be included where applicable.
	SECTION V: SUPPLEMENTAL REQUIREMENTS
P 1 e	ase 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, atc.) 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).
۵.	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

- 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 mirborne 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 swissions, in relation to the surrounding area, residences and other permanent
 atructures and roadways (Example: Copy of relevant portion of USGS topographic map).
 - 38. An 8 1/2" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne saissions. Relate all flows to the flow diagram.

__DER Form 17-1.202(1)

	permit, attach a Certificate of Completion of Con- urce was constructed as shown in the construction
SECTION VI: BES	T AVAILABLE CONTROL TECHNOLOGY
Are standards of performance for rapplicable to the source?	new stationary acurces pursuant to 40 C.F.R. Part 60
[] Yes [] No	
Contaminant	Rate or Concentration
Has EPA declared the best evailabes, attach copy)	le control technology for this class of sources (If
[] Yes [] No	
Conteminant	Rate or Concentration
What emission levels do you propose	as best available control technology?
Contaminant	Rate or Concentration
<u> </u>	
escribe the existing control and t	treatment technology (if any).
escribe the existing control and i	2. Operating Principles:

prm 17-1.202(1) ective November 30, 1982 Page 8

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: ACFM d. Temperature: OF. FPS e. Velocity: Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary). ı. Control Device: Operating Principles: c. Efficiency: 1 Capital Cost: 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: 2. Control Device: Operating Principles: c. Efficiency: 1 d. Capital Cost: Baeful Life: Operating Cost: g. Energy: 2 Maintenance Cost: Availability of construction materials and process chemicals: Explain method of determining efficiency. ZEnergy to be reported in units of electrical power - KWH design rate. DER Form 17-1.202(1)

Page 9 of 12

Effective November 30, 1982

Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levele: Control Device: Operating Principles: Efficiency:1 Tapital Tost: 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: Energy: 2 Maintenance Cost: Availability of construction materials and process chemicals: Applicability to manufacturing processes: k. Ability to construct with control device, install in evailable space, and operate within proposed levels: escribe the control technology selected: Control Device: Efficiency: 1 2. Capital Cost: Useful Life: Operating Cost: Energy: 2 Maintenance Cost: Manufacturer: Other locations where employed on similar processes: 4. (1) Company: Mailing Address: (3) Lity: (4) State:

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

xp sin method of determining efficiency.

(5)	Environmental Manager:				
(6)	Telephone No.:				
(7)	Emissions: 1				
	Conteminent			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				
	Conteminent			Rate or Conce	ntration
	,				
(8)	Process Rate: 1				
10.	Reason for selection and	d description	of systems:		
	ent sust provide this infole, applicant sust state	the resson(i) why.		information not
		PREVENTION &	of Significan	T DETERIORATION	1
-	any Monitored Data	750		50?	
	no. sites				
Peri	od of Monitaring	month &	/ to	month day	year
: Øthe	r data recorded				
Atta	ch all date or statistics	al summaries	to this appli	cation.	
:	•		ı		
	bubbler (B) or continuo	us (C).			
	17-1.202(1) e November 30, 1982		11 nf 12		

2.	Instrumentation, Field and Laboratory	
٩.	Was instrumentation EPA referenced or its equivalent? [] Yes [] No	
ь.	Was instrumentation calibrated in accordance with Department procedures?	
	[] Yes [] No [] Unknown	
Het	eorological Dats Used for Air Quality Modeling	
1.	Year(s) of data from // to // month day year month day year	
2.	Surface data obtained from (location)	_
3.	Upper air (mixing height) data obtained from (location)	
4.	Stability wind rose (STAR) data obtained from (location)	_
Comp	puter Models Used	
	Modified? If yes, attach descriptio	n.
2.	Modified? If yes, attach descriptio	
3 <u>.</u>	Modified? If yes, attach description	
4.	Modified? If yes; attach description	
eip)	ach copies of all final model runs showing input data, receptor locations, and proless. Licants Maximum Allowable Emission Data	in-
oli	lutant Emission Rate	
1	TSP grams/sec	
. s	50 ² grams/sec	
mis	saion Data Used in Modeling	
_oin	ach list of emission sources. Emission data required is source name, description nt source (on NEDS point number), UTM coordinates, stack data, allowable emission normal operating time.	
Atta	ach all other information supportive to the PSD review.	
₽1 e	cuas the social and economic impact of the selected technology versus other applic tachnologies (i.e., jobs, payroll, production, taxes, energy, etc.). Incluses essment of the environmental impact of the sources.	
Tals	sch scientific, engineering, and technical material, reports, publications, jours, and other competent relevant information describing the theory and application coquested best available control technology.	r- of
	. 17_1 707(1)	

R hrm 17-1.202(1) [active November 30, 1982

Page 12 of 12

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 = $(3.47 lbs) \div (7.9 lbs) \times 100 = 43.9\%$.

Type of Coating	Approx. Weekly Usage	Density (1bs/gal)	Rate (1bs/gal)
polyester gelcoat	18 gal	8.0	3.6
laquer based primers	4.5 gal	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

Material	% Solids (by wt.)	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/yr.) (.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

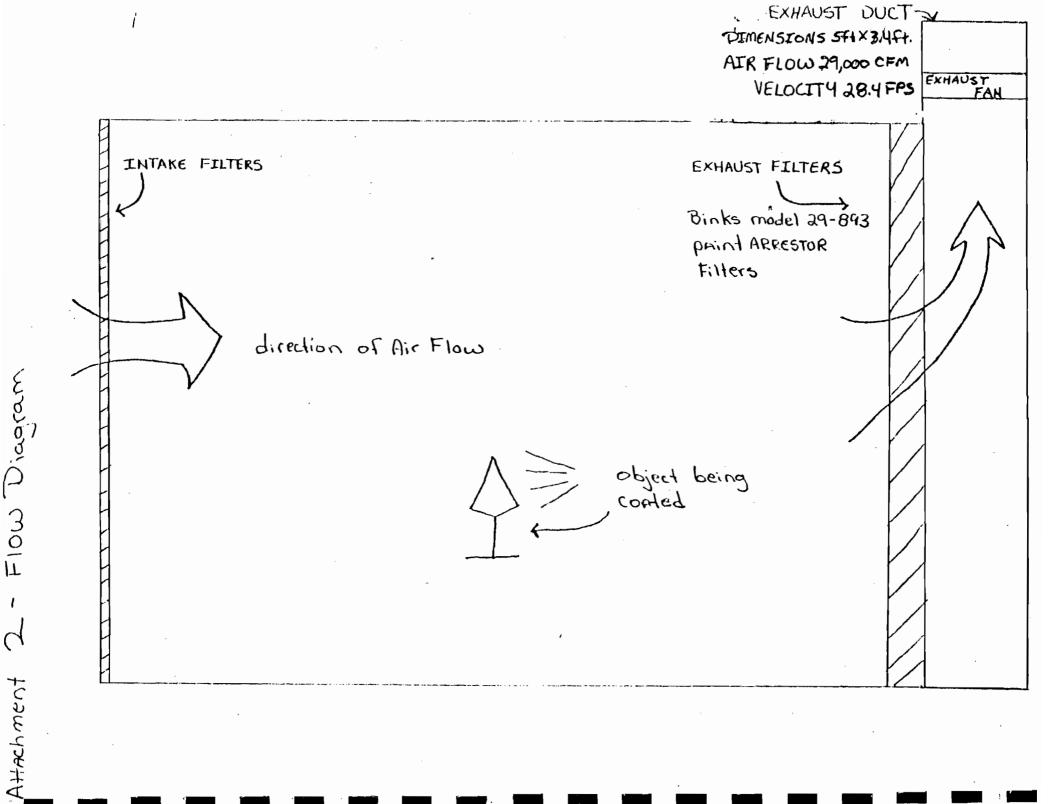
The actual emissions take into account a filter efficiency of 80% for laquers and 95% for two part high particulate coating systems (as quoted from the manufacturer)

Sample calculation for laquer based primers:

(Potential Emissions) (1-filter efficiency) = actual emissions (416 lbs/yr.) (0220) = 83.2 lbs/yr. = 0.04 T/yr.

<u>Material</u>	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



WaterWASh Plasticol Booth

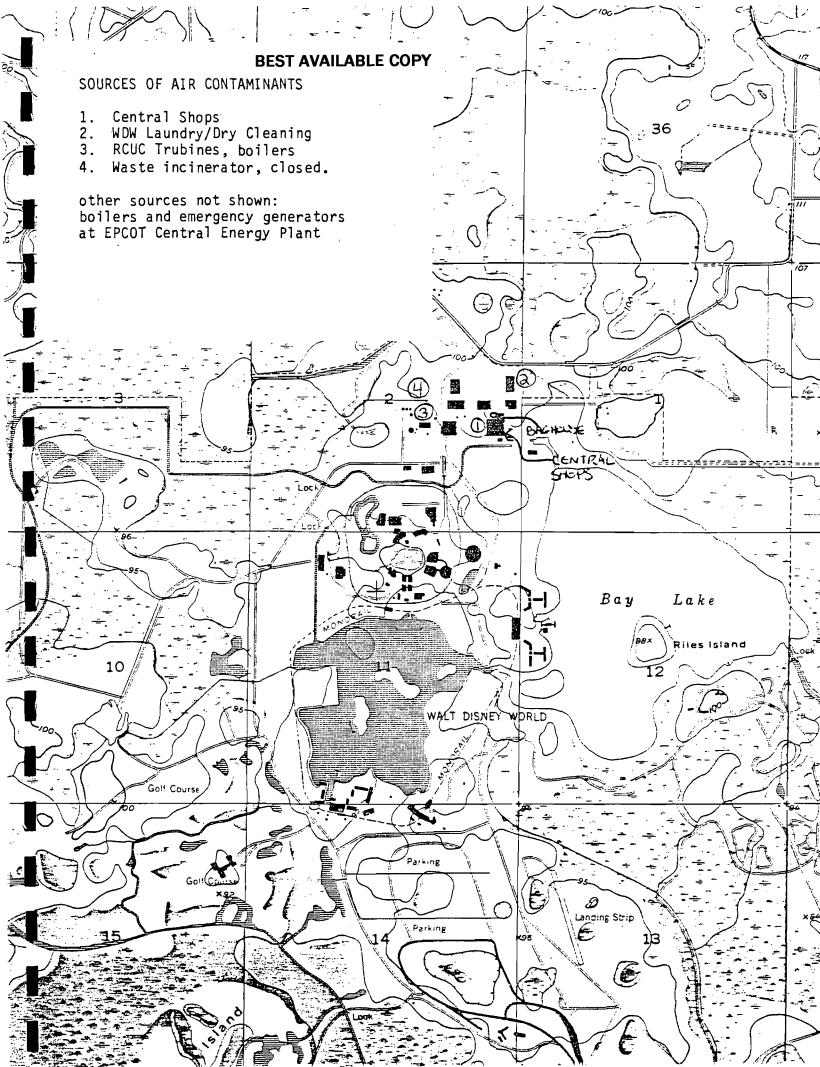
STAFF SHOP SPRAY BOOTH # 2

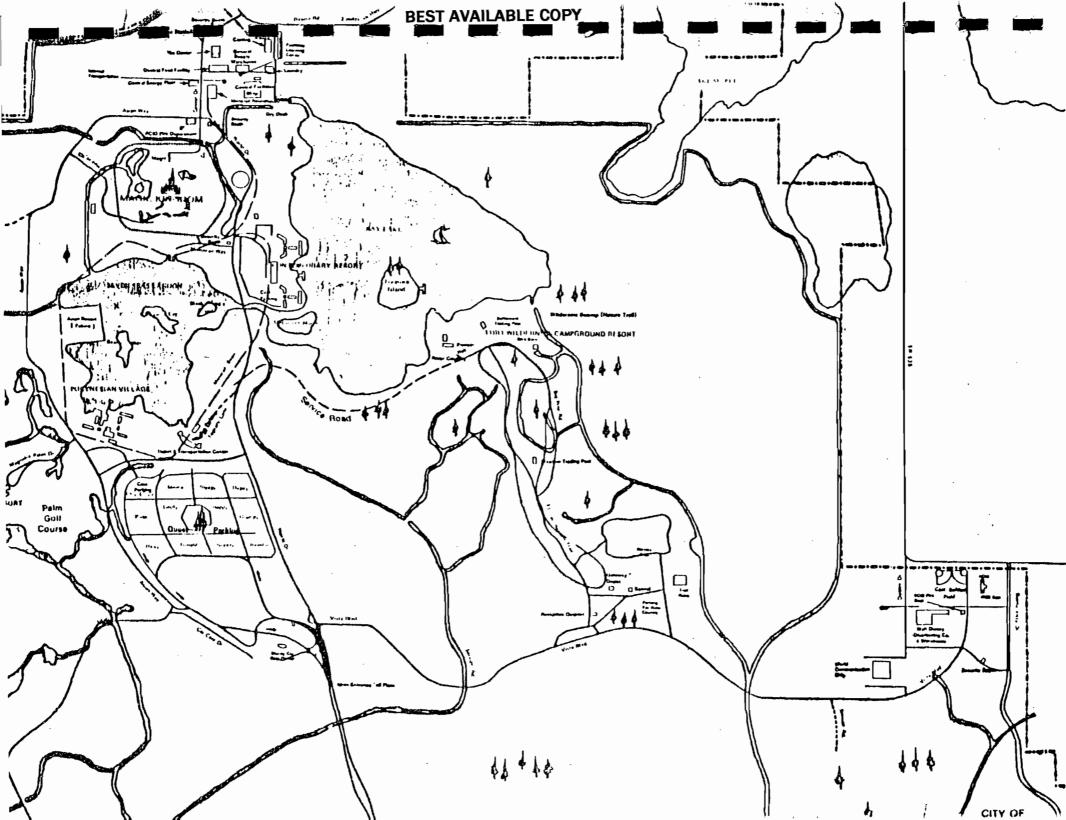
STAFF SHOP

Attachment #3 location of STAFF SHOP SPRAY BOOTH #2

LARGE BAY DOORS

Attachment #3





AC 44-104745

BEST AVAILABLE COPY

STATE OF FLORIDA

AC48-75838

DEPARTMENT OF ENVIRONMENTAL REGULATION

ST. JOHNS RIVER DISTRICT

3319 MAQUIRE BOULEVARD SUITE 232 \ \ ORLANDO, FLORIDA 32803

OCT 6 1983

SEP221983 SAINT JOHNS RIVER DISTRICT

BOB GRAHAM GOVERNOR ORIA J. TSCHINKEL SECRETARY

DISTRICT MANAGER

APPLICATION TO OPERATE/CONSTRUCT AIR POLICEION SOURCE [X] Exis

SOURCE TYPE: Water Wash Spray Booth and Curing[] New1 [X] Construction [] Operation [] Modification APPLICATION TYPE:

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

Bay Lake Street Facilities Way City SOURCE LOCATION:

> UTM: East 443566 North 3144333

Latitude 28 ° 25 ' 32 "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 32830

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

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 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 permitte establishment.

*Attach letter of authorization

Signed:

Philip N. Smith, Vice President-Legal
Name and Title (Please Type)

Date: 9/21/83 Telephone No. 828-1735

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 because wexamined 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

Page 1 of 12

pollution sources.	ion of the pollution control facilities and, if applicable,
	Signed
	TED W. MEKIN
	Name (Please Type)
	Reedy Crocek Utilities Co. Company Name (Please Type)
1	POBON 40 lata Bun in Victor 71
	Mailing Address (Please Type)
da Registration No. \mathbb{Z}^2	PD. Box 40 Lake BUDNA Vista 71A Mailing Address (Please Type) SSSS Date: 9/21/83 Telephone No. 305-824-495
	CTION II: GENERAL PROJECT INFORMATION
nd expected improvemen	extent of the project. Refer to pollution control equipment, its in source performance as a result of installation. State 1 result in full compliance. Attach additional sheet if
nstallation of Binks M	Manufacturing water wash spray booth (no pump model) and curing
	ating various objects with hot melt and vinyl plastisol, objects
	ally fiberglass animated show components, see attachment #1
phodulo of analysis	
	ered in this application (Construction Permit Application Only) existing booth
eart of Construction	existing booth Completion of Construction
for individual component	rol system(s): (Note: Show breakdown of estimated costs only ts/units of the project serving pollution control purposes. osts shall be furnished with the application for operation
1	
ndicate any previous DE	ER permits, orders and notices associated with the emission issuance and expiration dates.
nture Tuctnotum becatt	
	led in by Chuck Collins of Florida DER to be submitted by

	this is a new source or major modification, answer the following quest	ions.
1.	Is this source in a non-attainment area for a particular pollutant?	yes
	a. If yes, has "offset" been spplied?	no
	b. If yes, has "Lowest Achievable Emission Rate" been applied?	no
	c. If yes, list non-attainment pollutants	ozone)
2.	Does best available control technology (BACT) apply to this source? If yes, see Section VI.	no
3.	Does the State "Prevention of Significant Deterioristion" (PSD) requirement apply to this source? If yes, see Sections VI and VII.	no
٠.	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
	"Reasonably Available Control Technology" (RACT) requirements apply this source?	no
	a. If yea, for what pollutants?	

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

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

	Contas	inants	Utilization	
scription	Type	% Wt	Rate - lbs/hr	Relate to Flow Diagram
Hot melts and viewl plastisols	particulate	100	6.9	
kerssene	voc ·	100	0.49	

· Pro	cess Rate, if applicable:	(See Section V, Item 1)	N/A .	
	Total Process Input Rate	(lbs/hr):		
2.	Product Weight (lbs/hr):_			

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

sme of	Emiss	ionl	Allowed ² Emission Rate per Rule 17-2	Allowable ³ Emission	Potent Emiss	Relate to Flow	
taminant	Maximum lbs/hr	Actual T/yr		lbs/hr	lbs/yr	T/yr	Diagram
voc	0.49	0,51			1014	0.5	
reculate	0.07	0.07			7280	3.6	
<u> </u>							
1							

Ree Section V, Item 2.

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

elegulated from operating rate and applicable standard.

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

Rigorm 17-1.202(1) factive November 30, 1982

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.

Binks no pump particulate 98% (If applicable) Item 5)

dynaprecipitator

water wash filter model

NPB-14*

E. Fuels N/A

*See attachment #1

Control Devices: (See Section V, Item 4)

i		Consump	tion*	
	Type (Be Specific)	avq/hr	max./hr	Maximum Heat Input (MMBTU/hr)
		1		

*Units: Natural Gas -- MMCF/hr; Fuel Gils -- 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/gal
Other Fuel Contaminants (which may ca	use air p	ollution):	

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

Annual Average _____ Maximum _____

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

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

	•					ft er	
							FP
					R INFORMATI		
e of	Type 0 (Pļastics)				Type IV (Patholog- ical)		Type VI (Solid By-prod.)
tual hr ner-							
on- olled /hr)							
Welgh		ed (lbs/h	·)		Design Cap		hr)
Weigh	nt Incinerate Number of	ted (lbs/h	r)	per day _	Design Cap		wks/yr
Weigh	nt Incinerate Number of	ted (lbs/h	r)	per dayNodel !	Design Cap	wk	wks/yr
Weigh eximate cture Constr	nt Incinerate Number of	ted (lbs/hi	Tperation Heat Re	per dayNodel !	Design Cap day/	wk	Wks/yr
Weigh eximate cture Constr	Number of sr	Volume	Tperation Heat Re (BTU)	Per day	Design Cap day/	BTU/hr	Wks/yr
Weight cture construction cture Construction Chary Chary Heigh	Number of ructed	Volume (ft) 3	Heat Re (BTU/	per day	Design Cap day/	BTU/hr Stack Te	Temperature (*f)
weight cture construction const	Number of cucted Chamber	Volume (ft)3	Heat Re (BTU)	per dayNodel &	Design Cap day/ No. Fuel Type DSCFM= 1	BTU/hr Stack Te	Temperature (*f)
weight cture construction const	Number of ructed Chamber it: are tons per foot dry ga	Volume (ft)3	Heat Re (BTU/	Nodel de lease /hr) ater: Lty, submit excess air	Design Cap day/ No. Fuel Type DSCFM+ the emiss:	BTU/hr Stack Te Velocity: Lona rate in	Temperature (°f) smp. FP:

k Height:		35	ft.	Stack Dia	meter: 1 ft	<u>x 1.3 ft.</u>
low Rate: _	ACFH_	3,000	_DSCFM	Gas Exit	Temperature:_	•
Vapor Cont	nt: <u>ambient</u>		<u> </u>	Velocity:	37	_6FI
	SEC	TION IV:	INCINER	ATOR INFOR	HATION	
	0 Type I ics) (Rubbish				log- (Liq.& G	Type VI as (Solid By-prod.)
ual hr ner- ed						
on- lled /hr)						
ĺ	ste	_		Design	Capacity (1bs	ı/hr)
Weight Inci ximate Numbe	nerated (lbs/	Operation				n/hr)wks/yr
Weight Inci ximate Numbe acturer	nerated (1bs/	Operation	per day	,	isy/wk	
Weight Inci ximate Numbe facturer	nerated (1bs/	Operation	per day	, (isy/wk	wks/yr
Weight Inci ximate Numbe facturer tonstructed	nerated (lbs/	Operation Heat Re	per day	, >1 No	uel	wks/yr
Weight Inci ximate Numbe acturer constructed	volume	Operation Heat Re	per day	, >1 No	uel	wks/yr
Weight Inci ximate Number acturer tonstructed ary Chamber andary Chambe	volume	Heat Re	Mode	Type	uel BTU/hr	Temperature (°F)
Weight Inci ximate Number acturer constructed ary Chamber andary Chambe	valume (ft)	Heat Re (BTU/	Mode	ol NoF	uel BTU/hr	Temperature (°F)
ximate Number acturer tonstructed tonstruc	Volume (ft)	Heat Re (BTU/ Stack Diam _ACFM	Mode lease (hr) ty, sub	Type DSCF	uel BTU/hr Stack M* Velocity:	Temperature (°F)
ximate Number facturer constructed constru	Valume (ft)3 ft.	Heat Re (BTU/ Stack Diam ACFM	Mode elease (hr) ty, sub excess	Type DSCF	Stack M* Velocity: issions rate	Temperature (°F) TempFP in grains per stan

Brief des	cription	of	ope	rating	ch	aracte	risti	csof	control	devi	208:			
												_		
	-													
		of	any	efflu	ent	other	than	that	emitted	from	the	stack	(scrubber	water
sh, etc.):													
													-	
							-							

SECTION Y: 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 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.
- 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 acrubber 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 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 sirborne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).
- 8. An 8 1/2" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

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

Page 7 of 12

	₹ _{₩:} ,	•
•^	he appropriate application fee in accordance wade payable to the Department of Environmental	
)] .	ith an application for operation permit, atta truction indicating that the source was con- permit.	
	SECTION VI: BEST AVAILABLE C	Ontrol technology
٠	. Are standards of performance for new stationary applicable to the source?	
	[] Yes [] No	
	Contaminant	Rate or Concentration
_		
_		
•	Has EPA declared the best available control to ss, attach copy) [] Yes [] No	chnology for this class of sources (If
	Contaminant	Rate or Concentration
_		
	1	
	What emission levels do you propose as best avai	lable control technology?
	Contaminant	Rate or Concentration
_		
,	escribe the existing control and treatment tech	nology (if any).
	T. Control Device/System: 2. Op	erating Principles:

xplain method of determining

Ropers 17-1.202(1) for ive November 30, 1982

Efficiency:

Page 8 of 12

4. Capital Costs:

#.

	. Useful Life:		6.	Operating Costs:	
7.	. Energy:		8.	Maintenance Cost:	
9.	. Emissions:				·
	Conteminant			Rate or Concentration	
				· ·	
<u> </u>		1			_
10	3. Stack Parameters			•	
٤.	. Height:	ft.	b.	Diameter:	ft.
c.	. Flow Rate:	ACFM	d.	Temperature:	٥F.
.	. Velocity:	FPS			
	escribe the control and treat se additional pages if necess		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:	
g .	. Energy: ²	·	h.	Maintenance Cost:	
		on moterial	s an	d process chemicals:	
i.	. Availability of construction	011 #8561741			
i.	•				
j.	. Applicability to manufactu	ring proces	ses:	, install in available space, and	operate
j.	Applicability to manufacture. Ability to construct with within proposed levels:	ring proces	ses:		operata
j.	Applicability to manufactus Ability to construct with within proposed levels:	ring proces	ses:		operate
j. k.	Applicability to manufactus Ability to construct with within proposed levels: Control Device:	ring proces	ses: vice	, install in available space, and	operate
j. k. 2.	Applicability to manufacture. Ability to construct with within proposed levels: Control Device: Efficiency:	ring proces	vice	, install in available space, and Operating Principles:	operate
j. k. 2. a.	Applicability to manufacture. Ability to construct with within proposed levels: Control Device: Efficiency: Useful Life:	ring proces	vice	, install in available space, and Operating Principles: Capital Cost:	operate

Page 9 of 12

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

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 Cost: 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: Control Device: Operating Principles: Efficiency: 1 Capital Costs: 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: scribe the control technology selected: Control Device: Efficiency: 1 2. Capital Cost: Useful Life: Operating Coat: Energy: 2 Maintenance Cost: Manufacturer: Other locations where employed on similar processes: (1) Company: Mailing Address: City: (4) State: pain method of determining efficiency. y to be reported in units of electrical power - KWH design rate. ? Form 17-1.202(1)

Page 10 of 12

Tad iva November 30, 1982

(5) Environmental Manager:				
(6) Telephone No.:				
(7) Emissions:1				
Contaminant			Rate or Concentr	stion
	-	·		
	<u> </u>			
				· -
(8) Process Rate: 1				
b. (1) Company:				
(2) Mailing Address:				
(3) City:	(4) State:	•	
(5) Environmental Manager:				
(6) Telephone No.:				
(7) Emissions: ¹				
Contaminant		1	Rate or Concentra	ition
			· · · · · · · · · · · · · · · · · · ·	<u> </u>
	·	,		
(8) Process Rate: 1				
10. Reason for selection and	description of	systems:		
Applicant must provide this info available, applicant must state t	rmation when a the reason(s) w	vailable. hy.	Should this in	formation not be
SECTION VII - P	REVENTION OF S	IGNIFICANT	DETERIORATION	
A. Company Monitored Data				
1no. sites	TSP	()	502+	Wind spd/dir
Period of Monitoring	month day	/ to	month day yea	r
Other data recorded				
		this enolic	etion.	
Attach all data or statistical	Summaries to	THIS applie		
Attach all data or statistical Specify bubbler (B) or continuous				

2 .	Instrumentation, Field and Laboratory
.	Was instrumentation EPA referenced or its equivalent? [] Yes [] No
₽.	Was instrumentation calibrated in accordance with Department procedures?
	[] Yes [] No [] Unknown
Met	eorological Data Used for Air Quality Modeling
1	Year(a) of data from / / to // month day year
2.	Surface data obtained from (location)
	Upper air (mixing height) data obtained from (location)
▲.	Stability wind rose (STAR) data obtained from (location)
, m	puter Models Used
—	Modified? If yes, attach description.
2.	Modified? If yee, attach description.
æ	Modified? If yes, attach description.
4.	Modified? If yes, attach description.
	ach copies of all final model runs showing input data, receptor locations, and prin- le output tables.
App	licants Maximum Allowable Emission Data
1	lutant Emission Rate
	TSPgrams/sec
	50 ² grams/sec
5 i e	asion Data Uaed in Modeling
boin	ach list of emission sources. Emission data required is source name, description of nt source (on NEDS point number), UTM coordinates, stack data, allowable emissions, normal operating time. ach all other information supportive to the PSD review.
t e	cuss the social and economic impact of the selected technology versus other applicateschoologies (i.e., jobs, payroll, production, taxes, energy, etc.). Include essment of the environmental impact of the sources.
12	ach scientific, engineering, and technical material, reports, publications, jour- s, and other competent relevant information describing the theory and application of requested best available control technology.
1	
F	17-1.202(1)

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 lbs/wk) ÷ (40 hrs/wk) = 6.9 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

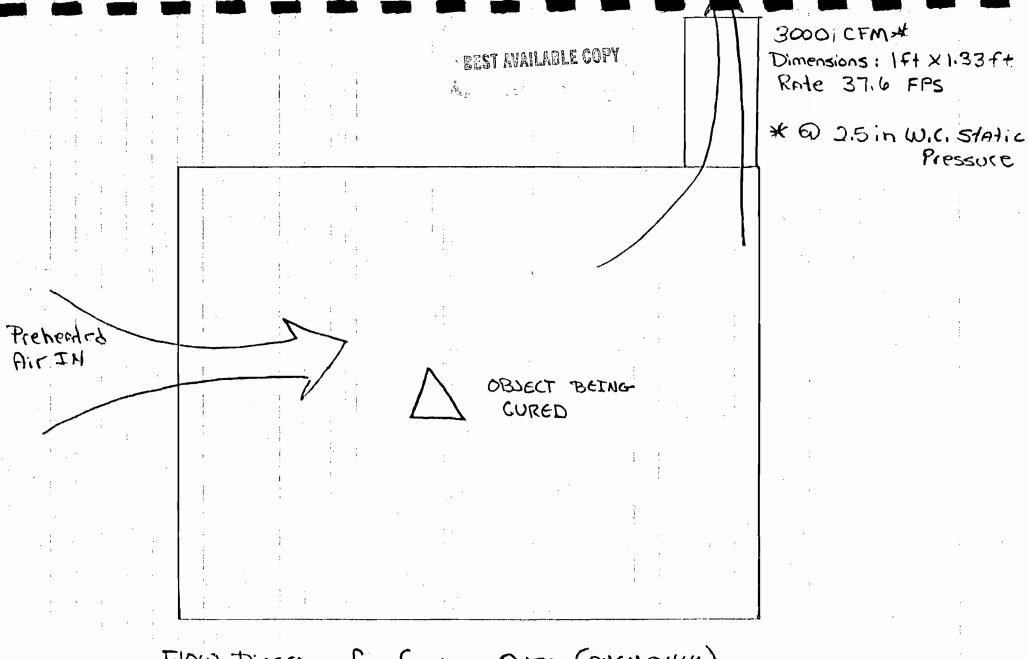
(Emission rate for VOC) = (utilization rate for kerosene) since the vinyl plastisol contains essentially no VOC.

(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.

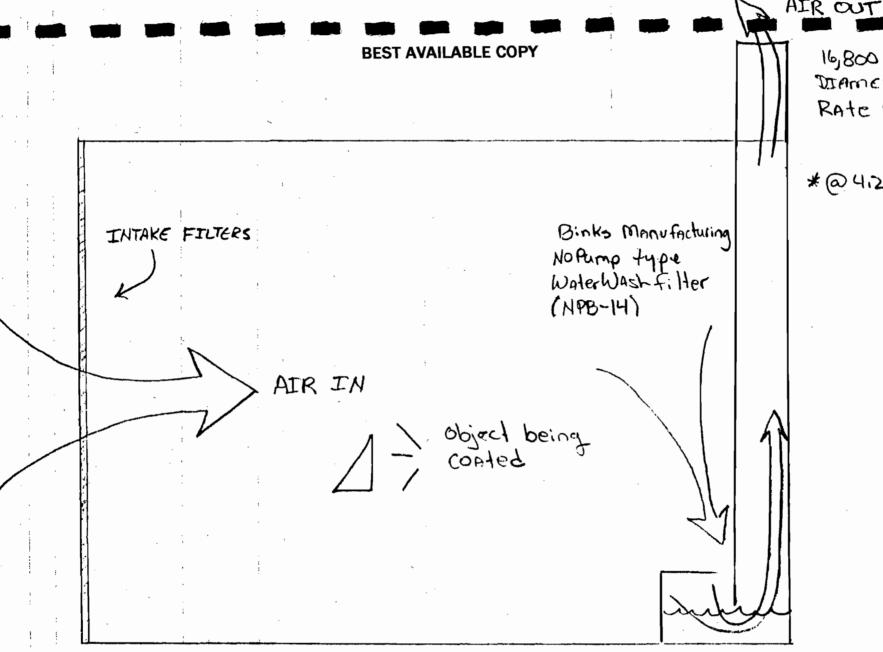
Flash off times are minimal, since the coated objects are rolled into the oven timediately after coating is completed. AP-40 page 862, figure 655 shows that with an estimated flash-off time of one minute, vinyl plastisols will lose approximately 71% of their solvent content. Therefore, the VOC emissions 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



his our

Flow Dingram for Curing Over (OVEN ONLY)



Flow Diagram for Vinyl Plastisol Booth (SPRAY BOOTH ONLY)

16,800 CFM* DIAMCTER 2,75ft RATE 47.2 FPS

*@412" W.C. Static Pressure

sinks

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.

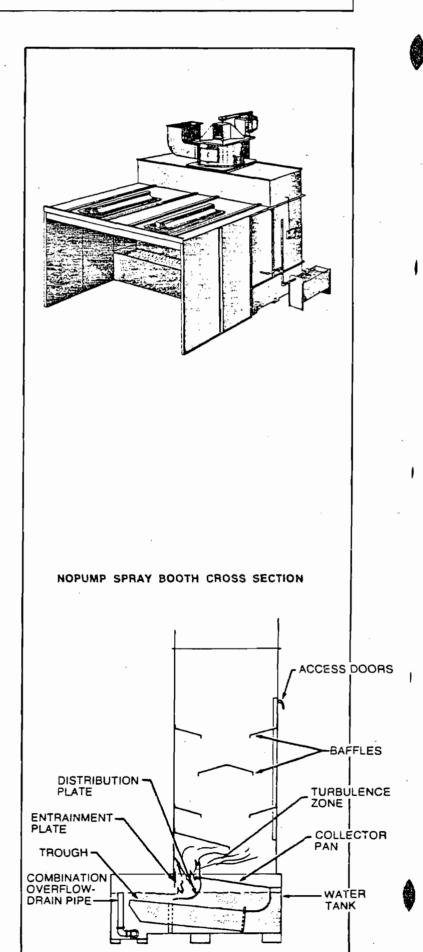
The "mixture" flow changes direction 11 times during its passage through the baffle section. At each change, centrifugal force separates air from paint particles and from water dropiets. The resulting rain of water, particularly from the lower baffles, serves additionally as a water curtain for scrubbing the incoming spray laden air. And all of the paint spray that is separated from the air falls back into the water tank.

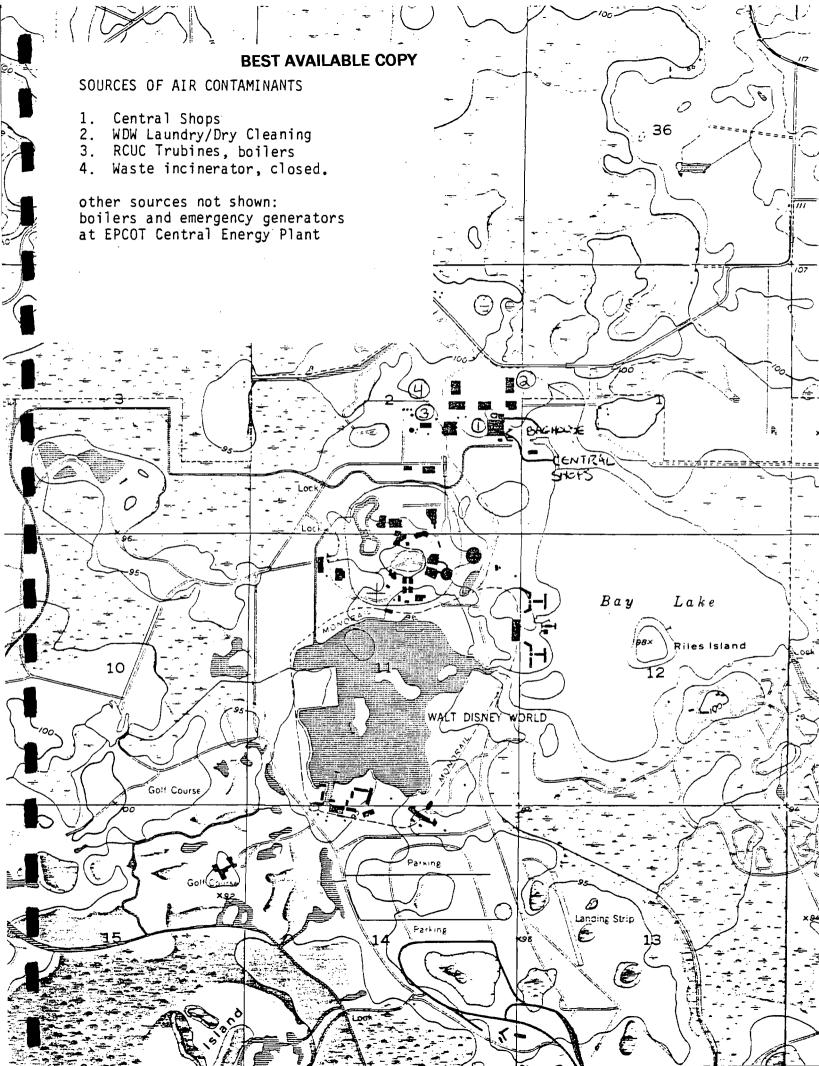
Water Treatment

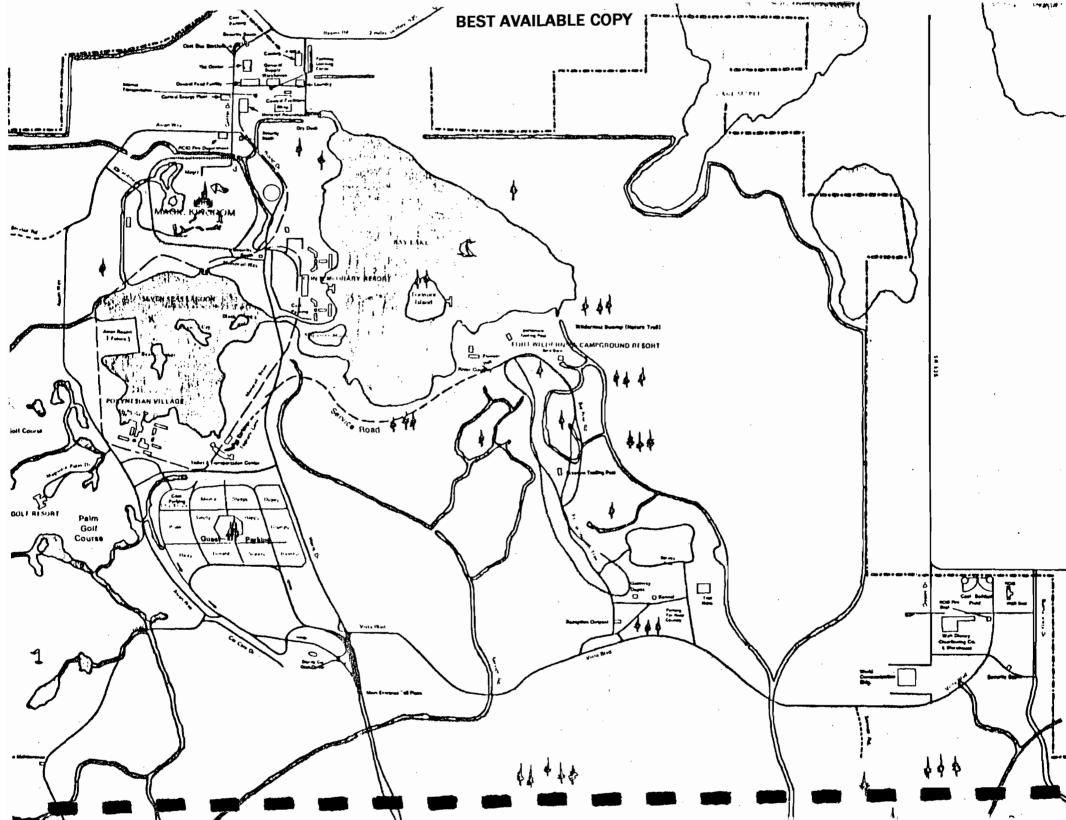
The water in the tank is treated with Binks Compound, a specially formulated, low-foaming, alkaline-base powder. This additive causes the particles of paint to sink to the bottom of the tank where they agglomerate as a soft, loamy, residue. Residue buildup may approach to within 2 inches of the water surface without adversely affecting the "nopump" action in the water tunnel. Residue removal is very infrequent; even in high production painting.

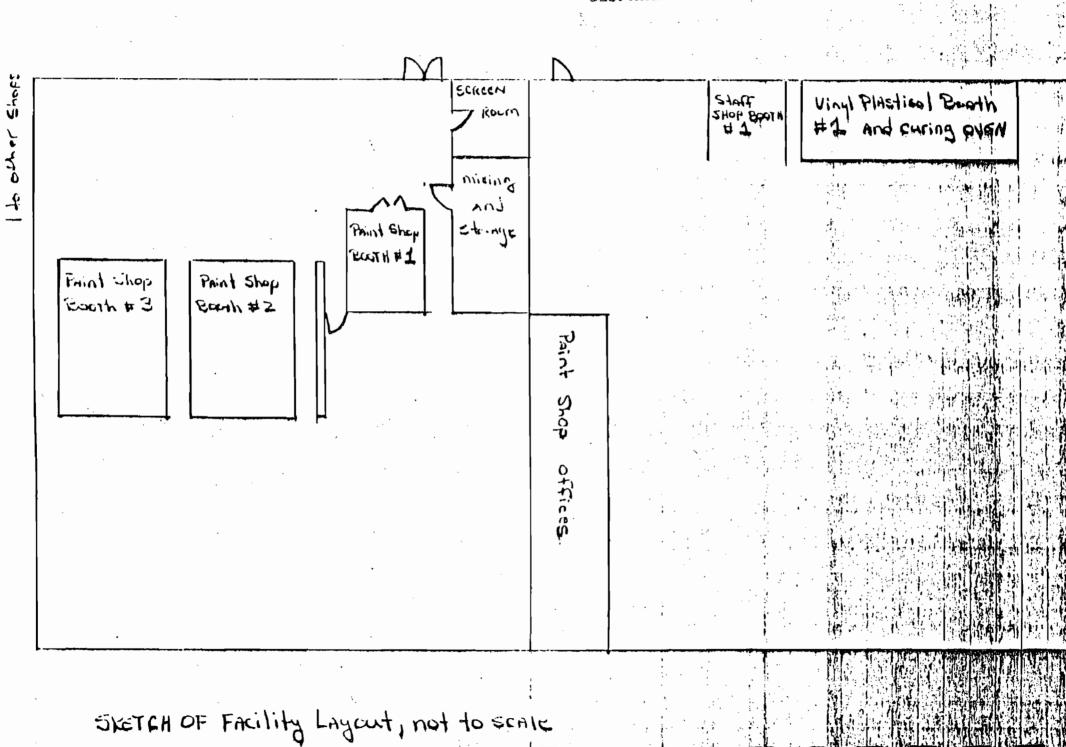
Precise water level control

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 ocated external to the booth proper—isolated from conaminating 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.













December 6, 1983

DER

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BAQM

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

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 Paint Shop #2 Paint Shop #3 Staff Shop #1	10/81 10/81 10/81 1970	12/81 12/81 12/81	
	Vinyl Plastisol/ Curing Oven #1	1/83	2/83	

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

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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.
 - 3. 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. $_2$ (radius = 1.375) $_2$ The cross sectional area = $_1$ R² = (3.14)(1.375) $_2$ = 5.94 sq ft (16,800 SCFM) $_2$ (5.94 sq ft) = 2,828 FPM (2,828 FPM) $_2$ (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 = 350° 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 x 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







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

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:

- 1. 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 withdrawal 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

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.
- 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.
 - 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 #I 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

> 6.09×10^6 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 . (lbs/y·r)	(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

Total Stock x Estimated Fraction Used

Fraction Total

= Usage in

---Withdrawal In all three booths, total

Floorspace

Individual booth

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	219.6 gal 1609.6 lbs
Acrythane Brush		360 gal	0	Production and		
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		es es =-	
Amerflint Reducer	7.3	374 gal	187 gal	37.4 gal 273 lbs	74.8 gal 546 lbs	74.8 gal 546 lbs

(continuation)

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TABLE 1 SOLVENT USAGE

		SOLV	Approximate			
Solvent Name or Destination	Approximate Density (lbs/gal)	Total Yearly Withdrawals	Usage In Paint Shop Booths	Approximate Usage In Booth #1	Approximate Usage In Booth #2	Approximate Usage In Booth #3
Destination	(IDS/gal)	WICHGIAWAIS		BOOTH #1.	BOOCII #2	BOOCII #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 ga 364.8 lb
Acetone	6.59	6,000 gal	50 gal	10 gal 65.9 lbs	20 gal 131.8 1bs	20 ga 131.8 1b
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 ga 146 1b
Trichloroethyle	ne					
Methylene- Chloride	11.0	715 gal	30 gal	6 gal 66 lbs	12 gal 132 lbs	12 ga 132 1b
Lacquer Reducer	6.0	5 gal	··· =-	l gal 6 lbs	2 gal 12 lbs	1 ga 12 1b
Hexa- Methylene	7.3		5 gal	1 gal 7.3 lbs	2 gal 14.6 lbs	
Gil. Ure/Lac	7.3	144 gal	40 gal	8 gal 58.4 lbs	16 gal _116.8 1bs	
TOTALS		30,372 gal	3361 gal	672.2 gal 4786.4 lbs	1344.4 gal 9572.8 lbs	1344.4 ga

BEST AVAILABLE COPY TABLE 2

	Approvinsta	PAINT	USAGE	W-+-1	Datantial	A
Type of Coating System	Approximate Coating Density (1bs/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 1bs/yr	. 0	15,292 gal/y
2-Part Epoxy Primer	10.5	218 gal/yr	0	2,289 lbs/yr	.0	810 gal/y
Conventional Primers	9.4	561 gal/yr	44 %	2,953 lbs/yr	2,320 lbs/yr	661 gal/y
Lacquers	7.9	232 gal/yr	69 %	568 lbs/yr	1,265 lbs/yr	622 gal/ÿ
Latex	8.0	50 gal/yr	0	280 lbs/yr*	0 Waterbase	575 gal/y
Low Solvent Shellac	app. 7.5	200 gal/yr	20.5%	1,192.5	307.5 lbs/yr	1,164 gal/y
Alkyd oil base	8.0	50 gal/yr	49 %	204 lbs/yr	196 · lbs/yr	1,443 gal/y
Miscellaneous Other Coatings	9.0	60 gal/yr	40 % **	324 lbs/yr	216 lbs/yr	ч10 gal/y — ————
TOTALS				65,590 lbs/yr	4,304.5 lbs/yr 2.15 tons/yr VOC FROM	21,614 gal/y
					COATING SYSTEMS ALONE	

^{*} Based on 70% Solids.

^{**} Approximate Average

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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 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 1bs/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	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 Coating	gs 36.9 lbs/yr	73.8 lbs/yr	73.8 lbs/yr	0.03	0.06	0.06
TOTALS	7,615 lbs/yr	15,230 lbs/y 7.61 → T/y	· · · ·	: €.		

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

Potentia mimions alcomate misiral ventray in the series in the transfer of the original permit submittal.

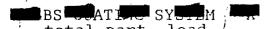
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TABLE 4

BREAKDOWN OF PARTICULATE EMISSIONS FROM PAINT SHOP SPRAY PAINT BOOTHS

Type of Coating	<u>Particul</u>	ate Loads	(lbs/yr)	Emiss	Particulations (with	1	From	Emissions n Coating Alone (lbs	/yr)
System	Booth 1	Booth 2	Booth 3	Booth 1	Booth 2	Booth 3	Booth 1	Booth 2	Booth 3
2-Part Acrylic Polyurethane	11,794.3	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 1bs/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 t/yr	0.86 t/yr	0.80 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.





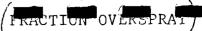


TABLE 5
UTILIZATION RATES FOR SOLVENT USAGE

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	0. 16
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 lbs/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 _lbs/yr	Booth #3 lbs/yr
Maximum VOC * Emissions	 3.68	7.36	7.36
Maximum Particulate Emissions **	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	70	0.
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

en effluent that complie rules and regulations of furnish, if authorized b	<pre>s with all applic the department. y the owner, the</pre>	roperly maintained and operated, will dischar cable atetutes of the State of Florida and the It is also agreed that the undersigned will applicant a set of instructions for the propon control Micilities and, if applicable,
pollution sources.	,	100000
	Signed	W. H. Mack
		William H. Mack
		Name (Please Type)
		Walt Disney World Co.
	•	Company Name (Please Type)
_		P.O. Box 40, Lake Buena Vista, FL 32830 Hailing Address (Please Type)
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	100	•
		-10-84 Telephone No. 305-828-255
SECT	ION II: GENERAL	PROJECT INFORMATION
and expected improvements	in source perfor	sect. Refer to pollution control equipment, mance as a result of installation. State expliance. Attach additional sheet if
Construction of built-in s	pray booth with	a new york blower model #S48-1 rated at
		ds and objects with polyester resin
ystem, laquer based prime	rs, and polyviny	1 alchonol
chedule of project covered	f in this applica	stion (Construction Parmit Application Dnly)
Start of Construction exis	ting boothc	completion of Construction
For individual components/	inits of the proj	e: Show breakdown of estimated costs only ect serving pollution control purposes. hed with the application for operation
	· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • •
ndicate any pravious DER po bint, including permit issu	ermite, ordera an	d notices associated with the emission ion dates.
ermit application called in	n by Ch y ck Collin	ns of Florida DER to be submitted by
(16/83.		
22.2.200(1)		
rm 17-1.202(1) ive October 31, 1982	Page 2 o	f 12





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.

Philip N. Smirh

Vice President - Legal and

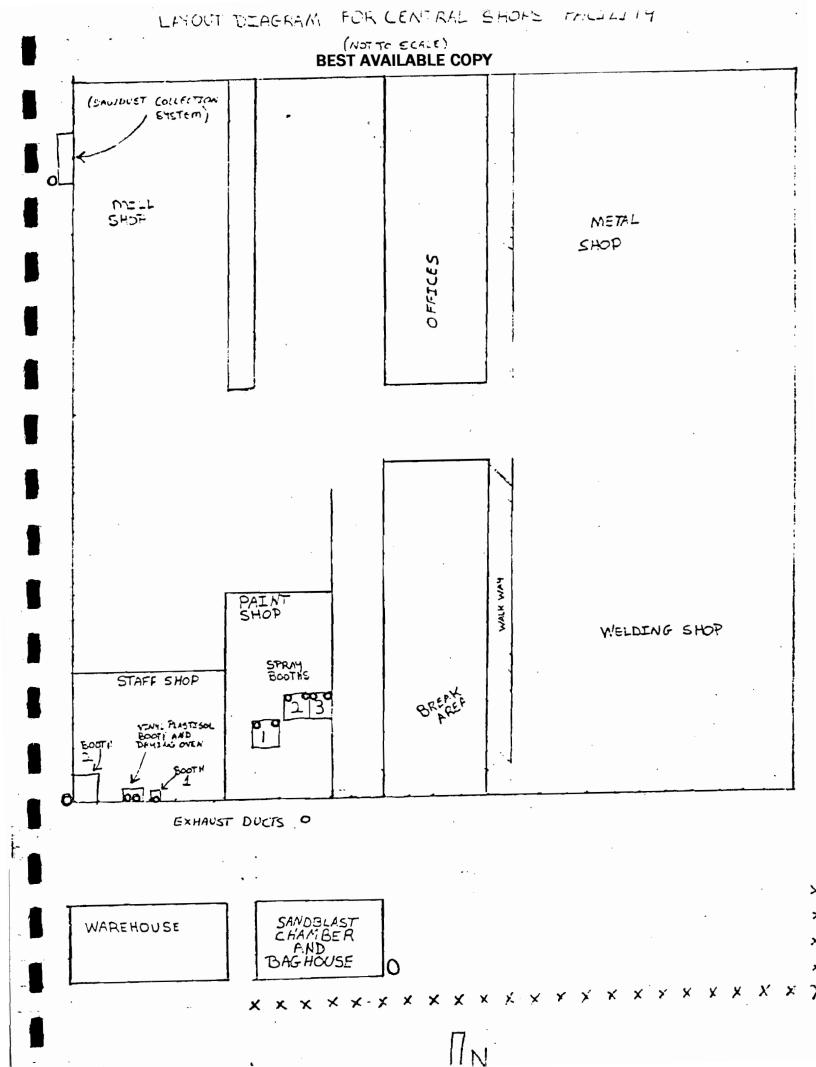
Secretary

PNS/0/1j

Enclosure

ATTACHMENT #4

SKETCH OF FACILITY LAYOUT FOR NSA PAINT SHOP BOOTH #3



BEST AVAILABLE COPY miles to SF 535 Reams Rd. , Cast Parking Security Booth Casting Cast Bus Station LAKE MABLE Dillie The Center -2111111111111111111E Central Food Facility Laundry Central Energy Plant General Supply Warehouse Central Facilities Shop Monorail Roundhouse **RCID Fire Department** -Dry Dock SIMME Security Booth Center Drive Security Booth Magic Kingdom Dr. Caribbean Dr. MAGIC SOUTH KINGDOM LAKE = Monorail Way BAY LAKE Security Booth CONTEMPORARY RIVER RESORT Discovery COUNTRY Cast Parking Island Wilderness Swamp (Nature Trail) Black Casteway Beard's-Settlement Trading Post Shipwreck Pioneer Hall Cay, Island Bike Bam Marsh leachcomber isie SEVEN SEAS LAGOON 535 Cypress Poin FORT WILDERNESS POLYNESIAN Topiary Lane CAMPGROUND RESORT VILLAGE Bus Parking Palm Dr. Fransportation & Ticket Center Seven Seas Dr. Meadow Trading Post Kennel Club Cast Parking Day Guest Parking ភ្នា<u>មគេភាព</u> Kennel Club RCID Fire Dept. Palm Golf Course Parking for River Country Warehouse #6 ive O Ворву Dr. Lane Vista United Car Care Center -Telecommunications Main Entrance/Toll Plaza Vista Blvd. olf Course Epcot Center Dr. Toli Plaza-Treehouse Lane aste Water Treatment Plant A-SWEL SOLID WASTE Communi Day Guest Parking IN CINERATOR **Bus Parking** B-CENTRAL ENERGY PLATET, 3 BOILERS Tree Farm Future World Backstan 2-TURBINES 0 C-CENTRAL SHOPS lot House 6-SPRAY BOOTHS EPCOT CENTER Cast حني الأ 2 - BAGHOUSES Parking World Showcase D - WDW LAUNDRY 4 - Perchloro - ethylene Dry Cleaning machines on វិសាយ៍សេសសេសស E. EPCOT CENTRAL ENERGY 3-BOILERS 2 - LARGE BURG





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	<u>Density</u>
	Acrythane Brush Reducer	0.971
	Z-Spar T-8	0.845
	Rustoleum T-66 Reducer (Xylene)	0.861
	Amerthane ST-535	0.862
	Methyl Ethyl Ketone (MEK)	0.807
	Methyl Heptal Ketone (MHK)	0.827
	Mineral Spirits	0.890
	Butyl Cellosolve Acetate	0.971

QUESTION 2 - No Data Available

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

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

Best Available Copy

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

GAS SERVICE LOCATION	FY 1983	EMISSIONS HYDROCARBONS
(Private)		
Gas Station, North Service Area	1,398,826 gal	7.69 T/yr
Gas Station, Lake Buena Vista	1,098,695 gal	_6.04 T/yr
SUBTOTAL	2,953,954 gal	17.83 T/yr
(Public)		
EXXON Car Care Center	1,187,792 gal	6.53 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	156,527 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