

Put your address in the "RETURN TO" card on being returned to you to and the date of delivery. For details consult the postmaster for fees and check box(es) for additional service(s) requested.

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

3. Article Addressed to: <i>Armando Rodriguez Walt Disney World Co. P.O. Box 10,000 Lake Buena Vista, FL 32830</i>	4. Article Number <i>P 256 396 209</i>
Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise	
Always obtain signature of addressee or agent and DATE DELIVERED.	
5. Signature — Address X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature — Agent X <i>RS</i>	
7. Date of Delivery <i>10-30-90</i>	

PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT

P 256 396 209

RECEIPT FOR CERTIFIED MAIL

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

U.S.G.P.O. 1989-234-555

Sent to <i>Armando Rodriguez</i>	
Street and No. <i>WDW</i>	
P.O., State and ZIP Code <i>Lake Bu, FL</i>	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date <i>10-3-90 AC 48-179646</i>	

PS Form 3800, June 1985

File Copy



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMITS

Mr. Armando Rodriquez
Walt Disney World Company
P. O. Box 10,000
Lake Buena Vista, Florida 32830

October 2, 1990

Enclosed are construction permits Nos. AC 48-179646 through AC 48-179649 to construct one spray booth, one solvent "Knox-out" station, one blast-media booth, and seven central shop paint mixing stations at your facility in Orlando, 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 these permits pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date these permits are filed with the Clerk of the Department.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

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

Copy furnished to:

Charles Collins, DER Orlando
Thomas W. Davis, P.E., ESE

Ready File }
Teresa Heron } 10/3/90 *TH*

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of buisness on 10-3-90.

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

Keri Decker
Clerk

10-3-90
Date

Final Determination

Walt Disney World Company
Lake Buena Vista
Orange County, Florida

Permit Numbers:

AC 48-179646	"Knox-Out" Station
AC 48-179647	Plastic Blast-Media Booth
AC 48-179648	Central Shop Paint Mixing Station
AC 48-179649	Disney Beach and Yacht Spray Booth

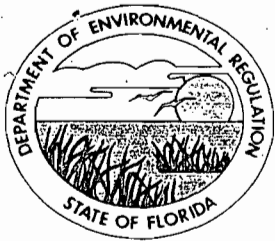
Department of Environmental Regulation
Division of Air Resources Management
Bureau of Air Regulation

September 28, 1990

Final Determination

The Technical Evaluation and Preliminary Determination for the permits to construct one spray booth, one solvent "knox-out" station, one blast-media booth, and seven central shop paint mixing stations at Walt Disney World Company in Orlando, Orange County, Florida, was distributed on July 23, 1990. The Notice of Intent to Issue was published in The Orlando Sentinel on August 1, 1990. Copies of the evaluation were available for public inspection at the Department's Central District and Tallahassee offices.

Comments were received from Mr. Armando Rodriguez, Manager, Environmental Control, Walt Disney Company, on the Department's Intent to Issue the permits. Mr. Rodriguez requested some changes in Specific Conditions No. 4 and No. 9 (AC 48-179646), Specific Condition No. 3 (AC 48-179647), Specific Conditions No. 4 and No. 7 (AC 48-179648), Specific Conditions No. 5 and No. 8 (AC 48-179649). These changes are discussed in the attached letter dated September 12, 1990. The Bureau has analyzed and approves, with one exception, his requests and has modified the above referenced permits. The requirement to have the calculations certified by a Professional Engineer will not be deleted. The Bureau believes that these calculations are part of the application package and, as such, shall be certified as the application (DER Form 12-1.202(1)) is certified by the Professional Engineer. In addition, minor changes to clarify wording were made by the Department to Specific Conditions Nos. 1, 9, 14, 15, and 17. The final action of the Department will be to issue construction permits Nos. AC 48-179646 through AC 48-179649 with the modifications mentioned above made by the Department.



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachmann, Secretary

John Shearer, Assistant Secretary

PERMITTEE:
Walt Disney World Co.
P. O. Box 10,000
Lake Buena Vista, FL 32830

Permit Number: AC 48-179646
Expiration Date: March 30, 1991
County: Orange
Latitude/Longitude: 28°27'25"N
81°24'40"W
Project: Park Printing "Knox-Out"
Station

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

For the construction of a Park Printing "Knox-Out" Station to be located at 7481 President's Drive in Orlando, Orange County, Florida. The UTM coordinates are 459.69 km East and 3147.85 km North.

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

Attachments are listed below:

1. Walt Disney application forms received on April 26, 1990.
2. Department's letter dated May 25, 1990.
3. Walt Disney World's letter dated June 11, 1990.

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179646
Expiration Date: March 30, 1991

GENERAL CONDITIONS:

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

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

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

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

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

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179646
Expiration Date: March 30, 1991

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179646
Expiration Date: March 30, 1991

GENERAL CONDITIONS:

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

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

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

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

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

13. The permittee shall comply with the following:

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

b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179646
Expiration Date: March 30, 1991

GENERAL CONDITIONS:

records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

c. Records of monitoring information shall include:

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

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

SPECIFIC CONDITIONS:

Emission Limits

1. The maximum allowable VOC emissions shall not exceed 0.60 lbs/hr and 1.74 tons/yr. These emissions shall be verifiable on a 24-hr (daily) basis as required in specific condition No. 17.

2. Visible emissions shall not exceed 5% opacity.

3. Unless the Department has determined other concentrations are required to protect public health and safety, predicted ambient air impact of any toxic pollutant (as listed in the MSDS submitted with the application) shall not exceed the concentration calculated by the following formula:

$$AAC = \frac{OEL}{\text{Safety Factor}}$$

Where,

AAC = acceptable ambient concentration

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179646
Expiration Date: March 30, 1991

SPECIFIC CONDITIONS:

Safety Factor = 50 for category B substances and 8 hrs/day
100 for category A substances and 8 hrs/day
210 for category B substances and 24 hrs/day
420 for category A substances and 24 hrs/day

OEL = Occupational exposure level such as ACGIH, OSHA and NIOSH published standards for toxic materials.

Compliance Determination

4. Compliance with the VOC standard shall be determined by EPA Method 24, Determination of Volatile Matter Content or manufacturer's specifications and materials balance. The aforementioned method is contained in 40 CFR 60, Appendix A (July 1, 1988), and is adopted by reference in Rule 17-2.700, F.A.C.

5. Compliance with the visible emissions (V.E.) standard, shall be determined by EPA Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources, which is described in 40 CFR 60, Appendix A (July 1, 1988).

6. The permittee shall notify the DER's Central District office in writing at least 15 days in advance of the compliance test. Compliance test results shall be submitted to the District office not later than 45 days after the final run.

7. When the Department, after investigation, has good reason (such as complaints, increased visible emissions, etc.), to believe that any applicable emission standard contained in F.A.C. Chapter 17-2, or in this permit is being violated, it may require the owner or operator of the source to conduct compliance tests which identify the nature and quantity of air pollutant emissions from the source and to provide a report on the results of the tests to the Department.

8. If any spills, leaks, releases, etc., occur; the DER Central District office shall be promptly notified.

9. Compliance with the acceptable ambient concentrations shall be demonstrated based on calculations certified by a Professional Engineer registered in Florida using actual operating conditions. Determination of the ambient concentration for organic compounds shall be determined by Department approved dispersion modeling or the Dilution Factor Matrix calculations.

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179646
Expiration Date: March 30, 1991

SPECIFIC CONDITIONS:

Operating Rates

10. This source is allowed to operate 16 hrs/day, 7 days/wk, and 52 wks/yr.

11. The maximum material utilization rates are as stated in the application for the specific coatings and solvents which are to be used.

12. Any change in the method of operation, raw materials, equipment or operating hours shall be submitted to DER's Central District office for approval.

Rule Requirements

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

14. Issuance of this permit does not relieve the facility owner or operator from compliance with any applicable federal, state, or local permitting requirements and regulations (F.A.C. Rule 17-2.210(1)).

15. According to F.A.C. Rule 17-2.620(1)(a), no person shall store, pump, handle, process, load, unload, or use in any process or installation volatile organic compounds or organic solvents without applying known and existing vapor emissions control devices or systems deemed necessary and ordered by the Department. Currently, there are no control strategies associated with this operation other than crew efficiency to minimize pollutant emissions. The following procedures shall be utilized to minimize pollutant emissions:

- maintain tightly fitting covers, lids, etc., on all containers of VOC when they are not being handled, tapped, etc.;
- prevent excessive air turbulence across exposed VOCs;
- where possible and practical, procure/fabricate a tightly fitting cover for any open trough, basin, bath, etc., of VOC so that it can be covered when not in use;
- all fittings, valve lines, etc., shall be properly maintained; and,
- all VOC spills shall be attended to immediately and the waste properly disposed of, recycled, etc.

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179646
Expiration Date: March 30, 1991

SPECIFIC CONDITIONS:

16. No person shall cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor pursuant to F.A.C. Rule 17-2.620(2). Objectionable odor is defined as any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance pursuant to F.A.C. Rule 17-2.100(135).

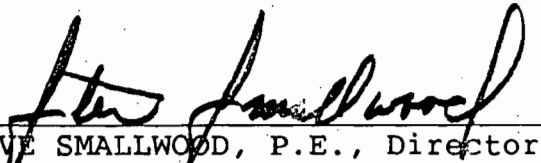
17. Pursuant to F.A.C. 17-2.210(2) Air Operating Permits, the permittee is required to submit annual reports on the actual operating rates and emissions from this source. These reports shall include but are not limited to the following: utilization rates (lbs/yr), VOC emissions (tons/yr, lbs/day, and lbs/hr), and annual hours of operation. Annual reports shall be sent to the Department's Central District office.

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

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

Issued this 2nd day
of October, 1990

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION


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



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

PERMITTEE:

Walt Disney World Co.
P. O. Box 10,000
Lake Buena Vista, FL 32830

Permit Number: AC 48-179647
Expiration Date: March 30, 1991
County: Orange
Latitude/Longitude: 28°23'57"N
81°24'01"W

Project: Plastic Blast-Media
Booth

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

For the construction of a plastic blast-media booth to be located at 736 Central Florida Parkway in Orlando, Orange County, Florida. The UTM coordinates are 460.595 km East and 3141.571 km North.

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

Attachments are listed below:

1. Walt Disney application forms received on April 26, 1990.
2. Department's letter dated May 25, 1990.
3. Walt Disney World's letter dated June 11, 1990.

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179647
Expiration Date: March 30, 1991

GENERAL CONDITIONS:

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

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179647
Expiration Date: March 30, 1991

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179647
Expiration Date: March 30, 1991

GENERAL CONDITIONS:

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

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

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

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

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

13. The permittee shall comply with the following:

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

b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179647
Expiration Date: March 30, 1991

GENERAL CONDITIONS:

records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

c. Records of monitoring information shall include:

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

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

SPECIFIC CONDITIONS:

Emission Limits

1. The maximum allowable PM emissions shall not exceed 0.03 lbs/hr and 0.04 tons/yr.
2. Visible emissions shall not exceed 5% opacity.

Compliance Determination

3. Compliance with the PM and the visible emissions (V.E.) standard shall be determined by EPA Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources, which is described in 40 CFR 60, Appendix A (July 1, 1988).

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179647
Expiration Date: March 30, 1991

SPECIFIC CONDITIONS:

4. The permittee shall notify the DER's Central District office in writing at least 15 days in advance of the compliance test. Compliance test results shall be submitted to the District office not later than 45 days after the final run.

5. When the Department, after investigation, has good reason (such as complaints, increased visible emissions, etc.), to believe that any applicable emission standard contained in F.A.C. Chapter 17-2, or in this permit is being violated, it may require the owner or operator of the source to conduct compliance tests which identify the nature and quantity of air pollutant emissions from the source and to provide a report on the results of the tests to the Department.

Operating Rates

6. This source is allowed to operate 8 hrs/day, 7 days/wk, and 52 wks/yr.

7. Any change in the method of operation, raw materials, equipment or operating hours shall be submitted to DER's Central District office for approval.

Rule Requirements

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

9. Issuance of this permit does not relieve the facility owner or operator from compliance with any applicable federal, state, or local permitting requirements and regulations (F.A.C. Rule 17-2.210(1)).

10. No person shall cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor pursuant to F.A.C. Rule 17-2.620(2). Objectionable odor is defined as any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance pursuant to F.A.C. Rule 17-2.100(135).

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179647
Expiration Date: March 30, 1991

SPECIFIC CONDITIONS:


11. Pursuant to F.A.C. 17-2.210(2) Air Operating Permits, the permittee is required to submit annual reports on the actual operating rates and emissions from this source. These reports shall include but are not limited to the following: utilization rates (lbs/yr), PM emissions (tons/yr, lbs/day, and lbs/hr), and annual hours of operation. Annual reports shall be sent to the Department's Central District office.

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

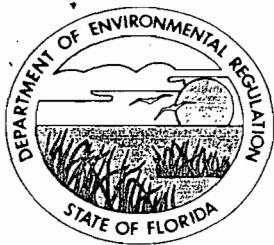
13. An application for an operation permit must be submitted to the Central District office at least 90 days prior to the expiration date of this construction permit or within 45 days after completion of compliance testing, whichever occurs first. To properly apply for an operation permit, the applicant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

Issued this 2nd day
of October, 1990

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



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



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

PERMITTEE:

Walt Disney World Co.
P. O. Box 10,000
Lake Buena Vista, FL 32830

Permit Number: AC 48-179648
Expiration Date: March 30, 1991
County: Orange
Latitude/Longitude: 28°25'32"N
81°34'36"W

Project: Central Shops Paint
Mixing Stations

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

For the construction of seven (7) Fellon-Pinchon Model 23-39-00 mixing stations to be located at Facilities Way in Baylake, Orange County, Florida. The UTM coordinates are 443.512 km East and 3144.219 km North.

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

Attachments are listed below:

1. Walt Disney application forms received on April 26, 1990.
2. Department's letter dated May 25, 1990.
3. Walt Disney World's letter dated June 11, 1990.

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179648
Expiration Date: March 30, 1991

GENERAL CONDITIONS:

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

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

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

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

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

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179648
Expiration Date: March 30, 1991

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179648
Expiration Date: March 30, 1991

GENERAL CONDITIONS:

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

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

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

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

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

13. The permittee shall comply with the following:

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

b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179648
Expiration Date: March 30, 1991

GENERAL CONDITIONS:

records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

c. Records of monitoring information shall include:

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

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

SPECIFIC CONDITIONS:

Emission Limits

1. The maximum allowable VOC emissions shall not exceed 0.13 lbs/hr and 0.17 tons/yr per booth. These emissions shall be verifiable on a 24-hr (daily) basis as required in specific condition No. 17.

2. Visible emissions shall not exceed 5% opacity.

3. Unless the Department has determined other concentrations are required to protect public health and safety, predicted ambient air impact of any toxic pollutant (as listed in the MSDS submitted with the application) shall not exceed the concentration calculated by the following formula:

$$AAC = \frac{OEL}{\text{Safety Factor}}$$

Where,

AAC = acceptable ambient concentration

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179648
Expiration Date: March 30, 1991

SPECIFIC CONDITIONS:

Safety Factor = 50 for category B substances and 8 hrs/day
100 for category A substances and 8 hrs/day
210 for category B substances and 24 hrs/day
420 for category A substances and 24 hrs/day

OEL = Occupational exposure level such as ACGIH, OSHA and NIOSH published standards for toxic materials.

Compliance Determination

4. Compliance with the VOC standard shall be determined by EPA Method 24, Determination of Volatile Matter Content or manufacturer's specifications and materials balance. The aforementioned method is contained in 40 CFR 60, Appendix A (July 1, 1988), and is adopted by reference in Rule 17-2.700, F.A.C.
5. Compliance with the visible emissions (V.E.) standard, shall be determined by EPA Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources, which is described in 40 CFR 60, Appendix A (July 1, 1988).
6. The permittee shall notify the DER's Central District office in writing at least 15 days in advance of the compliance test. Compliance test results shall be submitted to the District office not later than 45 days after the final run.
7. Compliance with the acceptable ambient concentrations shall be demonstrated based on calculations certified by a Professional Engineer registered in Florida using actual operating conditions. Determination of the ambient concentration for organic compounds shall be determined by Department approved dispersion modeling or the Dilution Factor Matrix calculations.
8. When the Department, after investigation, has good reason (such as complaints, increased visible emissions, etc.), to believe that any applicable emission standard contained in F.A.C. Chapter 17-2, or in this permit is being violated, it may require the owner or operator of the source to conduct compliance tests which identify the nature and quantity of air pollutant emissions from the source and to provide a report on the results of the tests to the Department.
9. If any spills, leaks, releases, etc., occur; the DER Central District office shall be promptly notified.

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179648
Expiration Date: March 30, 1991

SPECIFIC CONDITIONS:

Operating Rates

10. This source is allowed to operate 8 hrs/day, 6 days/wk, and 52 wks/yr.

11. The maximum material utilization rates are as stated in the application for the specific coatings and solvents which are to be used.

12. Any change in the method of operation, raw materials, equipment or operating hours shall be submitted to DER's Central District office for approval.

Rule Requirements

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

14. Issuance of this permit does not relieve the facility owner or operator from compliance with any applicable federal, state, or local permitting requirements and regulations (F.A.C. Rule 17-2.210(1)).

15. According to F.A.C. Rule 17-2.620(1)(a), no person shall store, pump, handle, process, load, unload, or use in any process or installation volatile organic compounds or organic solvents without applying known and existing vapor emissions control devices or systems deemed necessary and ordered by the Department. Currently, there are no control strategies associated with this operation other than crew efficiency to minimize pollutant emissions. The following procedures shall be utilized to minimize pollutant emissions:

- maintain tightly fitting covers, lids, etc., on all containers of VOC when they are not being handled, tapped, etc.;
- prevent excessive air turbulence across exposed VOCs;
- where possible and practical, procure/fabricate a tightly fitting cover for any open trough, basin, bath, etc., of VOC so that it can be covered when not in use;
- all fittings, valve lines, etc., shall be properly maintained; and,
- all VOC spills shall be attended to immediately and the waste properly disposed of, recycled, etc.

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179648
Expiration Date: March 30, 1991

SPECIFIC CONDITIONS:

16. No person shall cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor pursuant to F.A.C. Rule 17-2.620(2). Objectionable odor is defined as any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance pursuant to F.A.C. Rule 17-2.100(135).

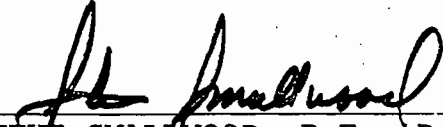
17. Pursuant to F.A.C. 17-2.210(2) Air Operating Permits, the permittee is required to submit annual reports on the actual operating rates and emissions from this source. These reports shall include but are not limited to the following: utilization rates (lbs/yr), VOC emissions (tons/yr, lbs/day, and lbs/hr), and annual hours of operation. Annual reports shall be sent to the Department's Central District office.

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

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

Issued this 2nd day
of October, 1990

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



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



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

PERMITTEE:
Walt Disney World Co.
P. O. Box 10,000
Lake Buena Vista, FL 32830

Permit Number: AC 48-179649
Expiration Date: March 30, 1991
County: Orange
Latitude/Longitude: 28°22'15"N
81°33'41"W
Project: Disney Beach and Yacht
Club Paint Spray Booth

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

For the construction of a spray booth located at the Disney Beach and Yacht Club in Orlando, Florida. The UTM coordinates are 444.998 km East and 3138.265 km North.

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

Attachments are listed below:

1. Walt Disney application forms received on April 26, 1990.
2. Department's letter dated May 25, 1990.
3. Walt Disney World's letter dated June 11, 1990.

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179649
Expiration Date: March 30, 1991

GENERAL CONDITIONS:

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

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

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

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

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

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179649
Expiration Date: March 30, 1991

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179649
Expiration Date: March 30, 1991

GENERAL CONDITIONS:

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

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

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

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

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

13. The permittee shall comply with the following:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179649
Expiration Date: March 30, 1991

GENERAL CONDITIONS:

records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

c. Records of monitoring information shall include:

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

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

SPECIFIC CONDITIONS:

Emission Limits

1. The maximum allowable VOC emissions shall not exceed 6.0 lbs/hr and 12.3 tons/yr. These emissions shall be verifiable on a 24-hour (daily) basis) as required in specific condition No. 18.
2. The maximum allowable PM emissions shall not exceed 0.10 lbs/hr and 0.35 tons/yr.
3. Visible emissions shall not exceed 5% opacity.
4. Unless the Department has determined other concentrations are required to protect public health and safety, predicted ambient air impact of any toxic pollutant (as listed in the MSDS submitted with the application) shall not exceed the concentration calculated by the following formula:

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179649
Expiration Date: March 30, 1991

SPECIFIC CONDITIONS:

$$AAC = \frac{OEL}{\text{Safety Factor}}$$

Where,

AAC = acceptable ambient concentration

Safety Factor = 50 for category B substances and 8 hrs/day
100 for category A substances and 8 hrs/day
210 for category B substances and 24 hrs/day
420 for category A substances and 24 hrs/day

OEL = Occupational exposure level such as ACGIH, OSHA and NIOSH published standards for toxic materials.

Compliance Determination

5. Compliance with the VOC standard shall be determined by EPA Method 24, Determination of Volatile Matter Content or manufacturer's specifications and materials balance. The aforementioned method is contained in 40 CFR 60, Appendix A (July 1, 1988), and is adopted by reference in Rule 17-2.700, F.A.C.

6. Compliance with the visible emissions (V.E.) standard, shall be determined by EPA Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources, which is described in 40 CFR 60, Appendix A (July 1, 1988).

7. The permittee shall notify the DER's Central District office in writing at least 15 days in advance of the compliance test. Compliance test results shall be submitted to the District office not later than 45 days after the final run.

8. Compliance with the acceptable ambient concentrations shall be demonstrated based on calculations certified by a Professional Engineer registered in Florida using actual operating conditions. Determination of the ambient concentration for organic compounds shall be determined by Department approved dispersion modeling or the Dilution Factor Matrix calculations.

9. When the Department, after investigation, has good reason (such as complaints, increased visible emissions, etc.), to believe that any applicable emission standard contained in F.A.C. Chapter 17-2, or in this permit is being violated, it may require

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179649
Expiration Date: March 30, 1991

SPECIFIC CONDITIONS:

the owner or operator of the source to conduct compliance tests which identify the nature and quantity of air pollutant emissions from the source and to provide a report on the results of the tests to the Department.

10. If any spills, leaks, releases, etc., occur; the DER Central District office shall be promptly notified.

Operating Rates

11. This source is allowed to operate 16 hrs/day, 5 days/wk, and 52 wks/yr.

12. The maximum material utilization rates are as stated in the application for the specific coatings and solvents which are to be used.

13. Any change in the method of operation, raw materials, equipment or operating hours shall be submitted to DER's Central District office for approval.

Rule Requirements

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

15. Issuance of this permit does not relieve the facility owner or operator from compliance with any applicable federal, state, or local permitting requirements and regulations (F.A.C. Rule 17-2.210(1)).

16. According to F.A.C. Rule 17-2.620(1)(a), no person shall store, pump, handle, process, load, unload, or use in any process or installation volatile organic compounds or organic solvents without applying known and existing vapor emissions control devices or systems deemed necessary and ordered by the Department. Currently, there are no control strategies associated with this operation other than crew efficiency to minimize pollutant emissions. The following procedures shall be utilized to minimize pollutant emissions:

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179649
Expiration Date: March 30, 1991

SPECIFIC CONDITIONS:

- maintain tightly fitting covers, lids, etc., on all containers of VOC when they are not being handled, tapped, etc.;
 - prevent excessive air turbulence across exposed VOCs;
 - where possible and practical, procure/fabricate a tightly fitting cover for any open trough, basin, bath, etc., of VOC so that it can be covered when not in use;
 - all fittings, valve lines, etc., shall be properly maintained; and,
 - all VOC spills shall be attended to immediately and the waste properly disposed of, recycled, etc.
17. No person shall cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor pursuant to F.A.C. Rule 17-2.620(2). Objectionable odor is defined as any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance pursuant to F.A.C. Rule 17-2.100(135).
18. Pursuant to F.A.C. 17-2.210(2) Air Operating Permits, the permittee is required to submit annual reports on the actual operating rates and emissions from this source. These reports shall include but are not limited to the following: utilization rates (lbs/yr), VOC and PM emissions (tons/yr, lbs/day, and lbs/hr), and annual hours of operation. Annual reports shall be sent to the Department's Central District office.
19. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Bureau of Air Regulation prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).
20. An application for an operation permit must be submitted to the Central District office at least 90 days prior to the expiration date of this construction permit or within 45 days after completion of compliance testing, whichever occurs first. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rule 17-4.220).

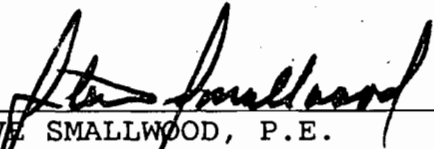
PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179649
Expiration Date: March 30, 1991

SPECIFIC CONDITIONS:

Issued this 2nd day
of October, 1990

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



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



State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

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

Interoffice Memorandum

TO: Steve Smallwood

FROM: Clair Fancy *CF*

DATE: September 28, 1990

SUBJ: Approval of Construction Permit AC 48-179646 through
AC 48-179649
Walt Disney World Company

Attached for your approval and signature are permits prepared by the Bureau of Air Regulation for the above mentioned company to construct one spray booth, one solvent "Knox-out" station, one blast-media booth, and seven central shop paint mixing stations at Walt Disney World Company.

No comments were received during the public notice period.

Day 90, after which these permits will be issued by default, is October 20, 1990.

I recommend your approval and signature.

CF/TH/plm

Attachments

#1: ok - well written permit

*#2: NO. Check question, explain
letter for signature.*

#3: ok - same as #1

#4 - ok - same as #1

CF

Check Sheet

Company Name: Walt Disney World Company
Permit Number: DC 48-179696, -697, -698, -699
PSD Number: _____
Permit Engineer: _____

Application:

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

Intent:

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

Final

Determination:

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

Post Permit Correspondence:

- ~~Extensions~~/Amendments/Modifications
- Other

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece next to the article number.

I also wish to receive the following services (for an extra fee):

- 1. Addressee's Address
- 2. Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:
 Armando Rodriguez, mgr.
 S.W. Central
 Walt Disney World Co.
 P.O. Box, 10,000
 Lake Buena Vista, FL
 32830-1000

4a. Article Number
P 617 884 127

- 4b. Service Type
- Registered Insured
 - Certified COD
 - Express Mail Return Receipt for Merchandise

7. Date of Delivery

12/19/91

5. Signature (Addressee)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)

[Handwritten Signature]

PS Form 3811, October 1990

☆ U.S. GPO: 1990-273-861

DOMESTIC RETURN RECEIPT

P 617 884 127



Certified Mail Receipt

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

UNITED STATES POSTAL SERVICE

Sent to	
Armando Rodriguez	
Street & No.	
WOW	
P.O., State & ZIP Code	
LBV, FL	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Address of Delivery	
TOTAL Postage & Fees	\$
Postmark or Date	12-13-91
	AC 48-179646

PS Form 3800, June 1990



Florida Department of Environmental Regulation

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

Lawton Chiles, Governor

Carol M. Browner, Secretary

December 5, 1991

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Armando Rodriguez, Manager
Environmental Control
Walt Disney World Company
P. O. Box 1000
Lake Buena Vista, Florida 32830-1000

Dear Mr. Rodriguez:

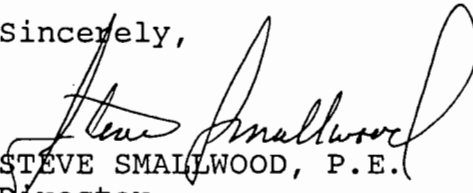
Re: Permit AC 48-179646, Knox-Out Station

The Department is in receipt of your letter dated October 30 on behalf of Walt Disney World Company requesting an extension of the expiration date of the above mentioned permit. This request is acceptable. The expiration date for this permit will be changed as follows:

From: November 15, 1991
To: March 30, 1992

This letter must be attached to the above mentioned permit and shall become a part of the permit.

Sincerely,


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

SS/TH/plm

Attachment to be Incorporated

Mr. Armando Rodriguez's letter of October 31, 1991.

c: A. Zahm, Central Dist.



Walt Disney World Co.

CERTIFIED

RECEIVED
NOV 6 1991
October 1991
Division of Air Resources Management

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

RE: Permit No. AC48-179646; Knox Out Station

Dear Mr. Fancy:

The above referenced permit was issued on October 1, 1990, with an expiration date of March 31, 1991. By letter dated January 15, 1991, the expiration date was changed to May 31, 1991. Subsequently, the expiration date was extended to November 15, 1991.

After continual delays in the manufacturing of the "Knox-Out" station, it has finally arrived. Installation will be finished by November 8, 1991. In order to comply with Specific Condition Number 19, which requires submittal of an operation permit application 90 days before expiration, it is requested that the expiration be extended to February 28, 1992.

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

Sincerely,

Armando Rodriguez
Manager
Environmental Control

AR/kt

cc J. Alron
A. Zahm



WALT DISNEY World Co.

RECEIVED
DER - MAIL ROOM

1991 DEC -2 PM 3:21

November 22, 1991

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

RE: Permit No. AC48-179646
Request for Extension

Dear Ms. Adams:

Pursuant to our telephone conversation last week, enclosed is the \$50 payment required by the extension request for the above referenced construction permit.

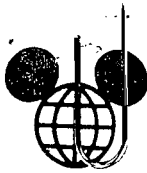
Should you require any further information, please call at (407) 827-2743.

Sincerely,

Armando Rodriguez
Manager
Environmental Control

ar/mb
Enclosure

001038



Walt Disney World Co.

93-47
929

CHECK NO.
006541.02

Walt Disney World Co.
Lake Buena Vista, Florida 32830

654102

FIFTY DOLLARS NO CENTS

PAY TO THE ORDER OF
FL DEPT OF ENVIRONMENTAL
REGULATION
2600 BLAIR STONE RD
SUITE 232
TALLAHASSEE, FL 32399-2400

DATE CHECK AMOUNT
11-21-91 *****50.00

Walt Disney World Co.

BY

William A. O'Loole

NORWEST BANK KALISPELL, N.A., KALISPELL, MT

Tallahassee, Florida 32399-2400

RE: Permit No. AC48-179646
Request for Extension

Dear Ms. Adams:

Pursuant to our telephone conversation last week, enclosed is the \$50 payment required by the extension request for the above referenced construction permit.

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

Sincerely,

Armando Rodriguez

Armando Rodriguez
Manager
Environmental Control

ar/mb
Enclosure

00103B

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

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

3. Article Addressed to: Armando Rodriguez, MEC Walt Disney World P.O. Box 10,000 Lake Buena Vista, FL 32830	4. Article Number P 407 852 702
5. Signature - Addressee X	Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
6. Signature - Agent X RB	Always obtain signature of addressee or agent and DATE DELIVERED.
7. Date of Delivery 5-16-91	8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-815 DOMESTIC RETURN RECEIPT

P 407 852 702

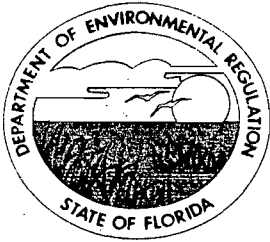
RECEIPT FOR CERTIFIED MAIL

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

* U.S.G.P.O. 1985-234-555

Sent to	Armando Rodriguez	
Street and No.	WDW	
P.O., State and ZIP Code	Lake B.V., FL	
Postage	\$	
Certified Fee		
Special Delivery Fee		
Restricted Delivery Fee		
Return Receipt showing to whom and Date Delivered		
Return Receipt showing to whom, Date, and Address of Delivery		
TOTAL Postage and Fees	\$	
Postmark or Date	5-14-91	
	AC 48-179646	

PS Form 3800, June 1985



Florida Department of Environmental Regulation

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

Lawton Chiles, Governor

Carol M. Browner, Secretary

May 8, 1991

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Armando Rodriguez, Manager Environmental Control
Walt Disney World Company
Post Office Box 10,000
Lake Buena Vista, Florida 32830

Dear Mr. Rodriguez:

Re: Permit No. AC 48-179646, Knox-Out Station

The Department is in receipt of your letter dated March 29 requesting an extension of the expiration date of the above mentioned permit. The source is located at 7481 President's Drive in Orlando, Florida. This request is acceptable. The expiration date for this permit will be changed as follows:

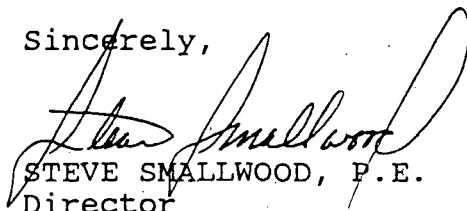
From: May 31, 1991
To: November 15, 1991

This letter must be attached to the above mentioned permit and shall become a part of the permit.

Attachment to be Incorporated:

Mr. Armando Rodriguez's letter of March 29, 1991.

Sincerely,



STEVE SMALLWOOD, P.E.
Director

Division of Air Resources
Management

SS/TH/plm

c: Charles Collins, Central Dist.



State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

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

Interoffice Memorandum

TO: Steve Smallwood
FROM: Clair Fancy *CF*
DATE: May 8, 1991
SUBJ: Amendment to Construction Permit AC 48-179646
Walt Disney World

Attached for your approval and signature is a letter extending the expiration date of the above referenced construction permit.

The Bureau recommends approval of this amendment.

CF/TH/plm

Attachment

OK/TH
5-8-91

3-29-91
Orlando, FL



WALT DISNEY World Co.

RECEIVED
APR 4 1991
DER-BAQM

March 29, 1991

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

RE: Permit No. AC48-179646; Knox-Out Station

Dear Mr. Fancy:

The above referenced permit was issued on October 2, 1990, with an expiration date of March 31, 1991. By letter dated January 15, 1991, the expiration date was changed to May 31, 1991.

The evacuation system for the "Knox-Out" station has been redesigned and will be going out for bids shortly. It is anticipated that installation will be complete by the end of July 1991. In order to comply with Specific Condition number 19, which requires submittal of an operation permit application 90 days before expiration, it is requested that the expiration date be extended to November 15, 1991.

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

Sincerely,

Armando Rodriguez
Manager
Environmental Control

ar/mb

BA/CHF

Teresa Heron

Chuck Collins, CD

} 4-5-91 RRM

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

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

3. Article Addressed to: Mr. Armando Rodriguez Manager Environmental Control Walt Disney World Company Post Office Box 10,000 Lake Buena Vista, FL 32830	4. Article Number P 407 853 155 Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
5. Signature - Addressee X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature Agent X <i>MAA [Signature]</i>	
7. Date of Delivery <i>2-18-91</i>	

Always obtain signature of addressee or agent and DATE DELIVERED.

PS Form 3811, Apr. 1989

★ U.S.G.P.O. 1989-238-815

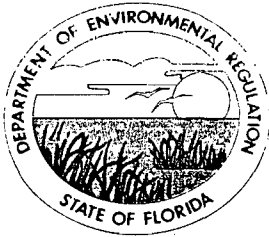
DOMESTIC RETURN RECEIPT

P 407 853 155
RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

★ U.S.G.P.O. 1989-234-555

PS Form 3800, June 1985

Sent to Mr. Armando Rodriguez, WDW	
Street and No. P. O. Box 10,000	
P.O., State, and ZIP Code Lake Buena Vista, FL 32830	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date Mailed: 2-15-91 Permit: AC 48-179649	



Florida Department of Environmental Regulation

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

Lawton Chiles, Governor

Carol M. Browner, Secretary

February 11, 1991

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Armando Rodriguez, Manager Environmental Control
Walt Disney World Company
Post Office Box 10,000
Lake Buena Vista, Florida 32830

Dear Mr. Rodriguez:

Re: Permit AC 48-179649 Disney's Beach & Yacht Paint Spray
Booth

The Department is in receipt of your letter dated January 7, 1991 requesting an extension of the expiration date of the above mentioned permit. The source is located at the Walt Disney complex in Orlando, Florida. This request is acceptable. The expiration date for this permit will be changed as follows:

From: March 30, 1991
To: August 15, 1991

This letter must be attached to the above mentioned permit and shall become a part of the permit.

Attachment to be Incorporated:

- Mr. Armando Rodriguez's letter of January 7, 1991.

Sincerely,

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

SS/TH/plm

c: Charles Collins, Central Dist.



State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

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

Interoffice Memorandum

TO: Steve Smallwood
FROM: Clair Fancy *CF*
DATE: February 11, 1991
SUBJ: Amendment to Construction Permit AC 48-179649
Walt Disney World Company

Attached for your approval and signature is a letter extending the expiration date for the above referenced construction permit.

The Bureau recommends approval of this amendment.

CF/TH/plm

Attachment



WALT DISNEY World Co.

RECEIVED

JAN 11 1991

DER-BAQM

January 7, 1991

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

RE: Permit Number AC48-179649;
Disney's Beach & Yacht Club Paint Spray Booth

Dear Mr. Fancy:

The above referenced construction permit expires on March 30, 1991. The Paint Booth is scheduled for completion in late March. In order to comply with Specific Condition No. 20, it is requested that the expiration date be extended to August 15, 1991. This extension will allow time for conducting the required visible emissions test (in compliance with Specific Condition No. 7) and submit the Certificate of Completion 90 days prior to expiration date.

Should you require any further information, please call me at (407)824-6962.

Sincerely,

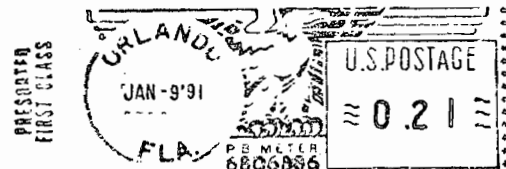
Armando Rodriguez
Manager
Environmental Control

AR/kt

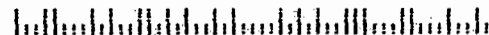


WALT DISNEY World Co.

P.O. Box 10,000
Lake Buena Vista, Florida 32830-1000



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



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

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

3. Article Addressed to: Mr. Armando Rodriguez Walt Disney World P.O. Box 10000 Lake Buena Vista, FL 32830	4. Article Number P 407 853 144
5. Signature - Addressee X	Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
6. Signature - Agent X CB	Always obtain signature of addressee or agent and DATE DELIVERED .
7. Date of Delivery 1-28-91	8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Apr. 1989

*U.S.G.P.O. 1989-238-815

DOMESTIC RETURN RECEIPT

P 407 853 144
RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

*U.S.G.P.O. 1989-234-555

Sent to	Armando Rodriguez
Street and No.	WSW
P.O. State, and ZIP Code	Lake Buena Vista, FL
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	AC 48-179646 1-25-91

PS Form 3800, June 1985



Florida Department of Environmental Regulation

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

Lawton Chiles, Governor

Carol M. Browner, Secretary

January 15, 1991

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Armando Rodriguez, Manager Environmental Control
Walt Disney World Company
Post Office Box 10,000
Lake Buena Vista, Florida 32830

Dear Mr. Rodriguez:

Re: Permit No. AC 48-179646 Knox-Out Station

The Department is in receipt of your letter dated December 13, 1990, requesting an extension of the expiration date of the above mentioned permit. The source is located at 7481 President's Drive in Orlando, Florida. This request is acceptable. The expiration date for this permit will be changed as follows:

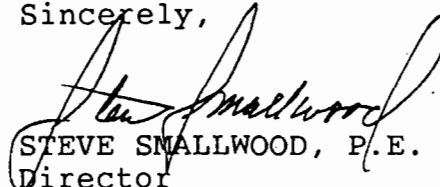
From: March 30, 1991
To: May 31, 1991

This letter must be attached to the above mentioned permit and shall become a part of the permit.

Attachment to be Incorporated:

- Mr. Armando Rodriguez's letter of December 13, 1990.

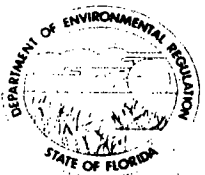
Sincerely,



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

SS/TH/ht

cc: Charles Collins, Central District



State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

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

Interoffice Memorandum

TO: Steve Smallwood
FROM: Clair Fancy *WTS*
DATE: January 15, 1991
SUBJ: Amendment to Construction Permit AC 48-179646
Walt Disney World Company

Attached for your approval and signature is a letter extending the expiration date for the above referenced construction permit.

The Bureau recommends approval of this amendment.

CF/TH/plm

Attachment



Walt Disney World Co.

RECEIVED

DEC 19 1990

DER-BAQM

December 13, 1990

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

RE: Permit Number AC48-179646; Knox Out Station

Dear Mr. Fancy:

The above referenced construction permit expires on March 30, 1991. The Knox-Out Station is scheduled for completion in late February. In order to comply with Specific Condition number 19, it is requested that the expiration date be extended to May 31, 1991. This extension will allow time for conducting the required visible emissions test and submit the Certificate of Completion 90 days prior to expiration date.

Should you require any further information, please call me at (407)824-6962.

Sincerely,

Armando Rodriguez
Manager
Environmental Control

AR/kt

cc: J. Heron
C. Collins, C. Dist

BEST AVAILABLE COPY



WALT DISNEY World Co.

P.O. Box 10,000
Lake Buena Vista, Florida 32830-1000



REGISTERED
FIRST CLASS



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





WALT DISNEY World Co.

RECEIVED

SEP 17 1990

DER-BAQM

September 12, 1990

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

Dear Mr. Andrews:

RE: Permit No's: AC48-179646 thru -179649.

After review of the Department of Environmental Regulation's Intent to Issue notice, please consider the following comments on the Construction Permits referenced above.

AC48-179646 - Knox-Out Station

1. Specific Condition No. 4.
Please amend this condition to read:
 4. Compliance with the VOC standard shall be determined by E.P.A. Method 24, Determination of Volatile Matter Content, or manufacturer's specifications and material balance. The aforementioned

This revision has been made to other permits issued to Walt Disney World Co. (see permit number AC48-156348; pertinent portion attached as Exhibit 1). This source is an exhaust system for the Knox-Out compound. The amount emitted is the same as the amount used.

2. Specific Condition No. 9.

In the permit application process, the Department allowed the use of its Dilution Factor Matrix in the calculation of the ambient concentration of organic compounds being emitted. It is not clear whether the phrase "by Department approved dispersion modeling" includes the use of the Dilution Factor Matrix. Since it will not be

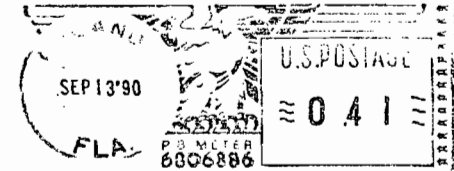


WALT DISNEY World Co.

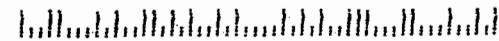
P.O. Box 10,000
Lake Buena Vista, Florida 32830-1000



PRESORTED
FIRST CLASS



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





Mr. Barry Andrews
Page 2
September 12, 1990

cost effective to conduct an actual dispersion model for this site, and this matrix was acceptable for use in the application submittal, it is requested that the Dilution Factor Matrix calculation be allowed for this compliance determination.

In addition, it is requested that the requirement to have the calculations certified by a Professional Engineer be deleted. In other submittals for compliance, much as stack tests, where extensive calculations are necessary, the professional certification is not required. The same rationale should apply here.

AC48-179647 - Plastic Blast Media Booth

Specific Condition No. 3.

It is requested that the requirement for a Method 5 stack test be deleted.

Similar permits previously issued to Walt Disney World Co. do not contain the dual Visible Emissions and Method 5 requirements (see A048-098907; pertinent portion attached as Exhibit 2). In order to conduct a Method 5 test on this emission point, extensive retrofitting of the exhaust duct must be completed in order to achieve linear (or non-cyclonic) flow, in addition to scaffolding or other external means of supporting the heavy and cumbersome Control and Sampling boxes plus the sample probe.

The mechanics of a baghouse are very simple - it either works or it doesn't. If there's a defect in a bag (hole or tear) or if a bag falls off, it will be readily evident by the opacity in the exhaust stream.

In other situations, such as phosphate rock operations, where particulate emissions can be much higher, compliance is determined by the opacity standard only; no stack tests are required. In paint booth operations, again where particulate emissions are expected to be higher than from this source, the norm has been to show compliance by the opacity standard, normally 5 percent, with no stack test requirement.



Mr. Barry Andrews
Page 3
September 12, 1990

AC48-179648 -Central Shops Paint Mixing Stations

1. Specific Condition No. 4.

Please add "or manufacturer's specifications and material balance." after the word "content".

The same rationale for AC48-179646 applies.

2. Specific Condition No. 7.

Please allow the use of the D.E.R. Dilution Factor Matrix and remove the Professional Engineer Certification requirement. See the rationale in AC48-179646, Specific Condition No. 9.

AC48-179649 - Beach & Yacht Club Paint Spray Booth

1. Specific Condition No. 5.

Please add "or manufacturer's specifications and material balance." after the word "content".

2. Specific Condition No. 8.

Please allow the use of the D.E.R. Dilution Factor Matrix and remove the Professional Engineer certification requirement. See the rationale in AC48-179646, Specific Condition No. 9.

Thank you for your considering these comments. Should you require any further information, please call me at (407)824-6962.

Sincerely,

Armando Rodriguez
Manager
Environmental Control

/kot
Attachment

cc: J. Nepon
C. Collins

PERMITTEE:
Walt Disney World Co.

Permit Number: AC 48-156348
Expiration Date: Dec. 1, 1989

SPECIFIC CONDITIONS:

6. Initial and annual compliance tests shall be conducted in accordance with the 1987 version of 40 CFR 60, Appendix A, using:

- a. EPA Method 9 for visible emissions
- b. EPA Method 24 for VOC, or manufacturers specifications and material balance.

7. A minimum of 15 days prior notification of the compliance tests shall be given to DER's Central Florida District office. The compliance test results shall be submitted to the district office within 45 days of test completion.

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

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

10. Any change in the method of operation, raw materials, equipment or operating hours shall be submitted to DER's Central Florida District office for approval.

Issued this 24 day
of March, 1989

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

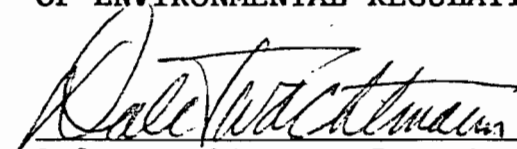

Dale Twachtmann, Secretary

EXHIBIT 2

PERMITTEE:
Walt Disney World Company

Attention: Edward B. Crowell,
V.P., Facilities Division

I. D. Number:
Permit/Certification Number:
AO48-098907
Date of Issue:
Expiration Date: 8/16/92

SPECIFIC CONDITIONS:

1. No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor pursuant to Rule 17-2.620(2) F.A.C. Objectionable odor is defined as any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance pursuant to Rule 17-2.100(131) F.A.C. Odor is defined as a sensation resulting from stimulation of the human olfactory organ pursuant to Rule 17-2.100(132) F.A.C.
2. There shall be no discharges of liquid effluents or contaminated runoff to surface or ground water without prior approval from this office.
3. All unconfined emissions of particulate matter generated at this site shall be adequately controlled. (Rule 17-2.610(3), F.A.C.) Area must be watered down should unconfined emissions occur.
4. This permit does not preclude compliance with any applicable local permitting requirements and regulations.
5. The permitted utilization rate of the Sand Blast Chamber is 6.25 pounds/hour of sand and of the Sawdust Collector is 82.8 pounds/hour of sawdust, wood chips, and shavings entering the baghouse.
6. The visible emissions for these sources must comply with Rule 17-2.610(2)F.A.C. and the compliance test must be conducted in accordance with Rule 17-2.700(6)(b)9, (DER Method #9) F.A.C. at yearly intervals from the date of July 8, 1987.
7. Each Baghouse should be properly operated and maintained (Rule 17-2.210(2) F.A.C.). No person shall circumvent any pollution control device or allow the emissions of air pollutants without the applicable air pollution control device operating properly (Rule 17-2.240 F.A.C.).
- 8. Visible emissions are not expected to exceed 5 percent opacity from a properly maintained and operated Baghouse.



WALT DISNEY World Co.

RECEIVED

AUG 20 1990

DER-BAQM

August 15, 1990

Mr. C.H. Fancy, P.E.
Department of Environmental
Regulation
Bureau of Air Regulation
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Mr. Fancy:

RE: AC48-179646 thru -179649

In accordance with the Intent to Issue notice issued by the Department, enclosed is proof of publication of the Notice of Intent to Issue which appeared in the Orlando Sentinel. The notarized notice was received at my office on August 10, 1990.

Should you require any further information, please call me at (407)824-6962.

Sincerely,

Armando Rodriguez
Manager
Environmental Control

/kot
Enc. \

cc: J. Beron
C. Collins

The Orlando Sentinel

Published Daily
Orlando, Orange County, Florida

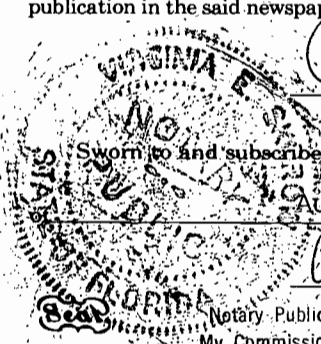
State of Florida ss.
COUNTY OF ORANGE

Before the undersigned authority personally appeared _____
Juanita Rosado _____, who on oath says that

she is the Legal Advertising Representative of the Orlando Sentinel, a Daily newspaper published at Orlando, in Orange County, Florida; that the attached copy of advertisement, being a Notice of Intent to Issue Permit in the matter of Walt Disney World Company

_____ in the _____ Court,
was published in said newspaper in the issues of _____
August 1, 1990

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



Juanita Rosado
Sworn to and subscribed before me this _____ 1st _____ day _____ August _____ A.D., 19 _____ 90

Virginia E. Shrum
Notary Public, State of Florida at Large
My Commission Expires February 9, 1993
Bonded thru Brown & Brown, Inc.
Notary Public

FORM NO. AD-262

RECEIVED

AUG 20 1990

DER-BAQM

ADVERTISING CHARGE \$168.68

State of Florida
Department of Environmental Regulation

Notice of Intent to Issue
The Department of Environmental Regulation hereby gives notice of its intent to issue air construction permits to Walt Disney World Company, P.O. Box 10,000, Lake Buena Vista, Florida 32830 to construct one spray booth, one solvent "Knox-Out" station", one blast-media booth", and seven central shop paint mixing stations to be located at the Walt Disney World Complex (these sources are located off the main Walt Disney World facility) in Orlando, Florida. A determination of Best Available Control Technology (BACT) was not required. The Department is issuing this Intent to Issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information:

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;

(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;

(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

(d) A statement of the material facts disputed by Petitioner, if any;

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

(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
(g) a statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

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

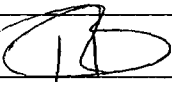
The applications are available for public inspection during business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:
Department of Environmental Regulation
Bureau of Air Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
Department of Environmental Regulation
Central District Office
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803-3767

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

CL-738 August 1, 1990

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

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

3. Article Addressed to: Mr. Armando Rodriquez Walt Disney World Co. P.O. Box 10,000 Lake Buena Vista, FL 32830	4. Article Number P 256 396 150
	Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
	Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature - Addressee X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent X 	
7. Date of Delivery 7-28-90	

PS Form 3811, Apr. 1989

*U.S.G.P.O. 1989-238-815

DOMESTIC RETURN RECEIPT

P 256 396 150
RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

*U.S.G.P.O. 1989-234-555

Sent to Mr. Armando Rodriquez	
Walt Disney World Co.	
P.O. Box 10,000	
Lake Buena Vista, FL 32830	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date mailed: 7/23/90 AC 48-179646, -179647, -179648 & -179649	

PS Form 3800, June 1985

File Copy



Florida Department of Environmental Regulation

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

Bob Martinez, Governor Dale Twachtmann, Secretary John Shearer, Assistant Secretary

July 20, 1990

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

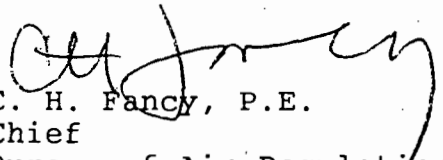
Mr. Armando Rodriquez
Walt Disney World Company
P. O. Box 10,000
Lake Buena Vista, Florida 32830

Dear Mr. Rodriquez:

Attached is one copy of the Technical Evaluation and Preliminary Determination and proposed permits to construct, one spray booth, one solvent "Knox-Out" station*, one blast-media booth*, and seven central shop paint mixing stations to be located at the Walt Disney World Complex (*these sources are located off the main Walt Disney World facility) in Orlando, Florida.

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

Sincerely,


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

CHF/TH/plm

Attachments

c: Charles Collins, DER Orlando
Thomas W. Davis, P.E., ESE
Reading File }
Teresa Heron } 7-23-90 RAL

BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of
Application for Permits by:

Walt Disney World Company
P. O. Box 10,000
Lake Buena Vista, Florida 32830

DER File No. AC 48-179646
thru -179649

INTENT TO ISSUE

The Department of Environmental Regulation hereby gives notice of its intent to issue air construction permits (copies attached) for the proposed project as detailed in the applications 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, applied on April 26, 1990, to the Department of Environmental Regulation for permits to construct, one spray booth, one solvent "Knox-Out" station*, one blast-media booth*, and seven central shop paint mixing stations to be located at the Walt Disney World Complex (*these sources are located off the main Walt Disney World facility) in Orlando, Florida.

The Department has permitting jurisdiction under Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-2 and 17-4. The project is not exempt from permitting procedures. The Department has determined that air construction permits are required for the proposed work.

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

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

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the permit applicant and the parties listed below must be filed within 14 days of receipt of this intent. Petitions filed by other persons must be filed within 14 days of publication of the public notice or within 14 days of receipt of this intent, whichever first occurs. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information;

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;

(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;

(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

(d) A statement of the material facts disputed by Petitioner, if any;

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

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

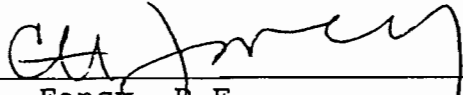
(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application(s) have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office in General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such

person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



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

Copies furnished to:

Charles Collins, DER Orlando
Thomas W. Davis, P.E., ESE

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF INTENT TO ISSUE and all copies were mailed before the close of business on 7-23-90.

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

Kevin Doherty
Clerk

7-23-90
Date

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

The Department of Environmental Regulation hereby gives notice of its intent to issue air construction permits to Walt Disney World Company, P. O. Box 10,000, Lake Buena Vista, Florida 32830 to construct one spray booth, one solvent "Knox-Out" station*, one blast-media booth*, and seven central shop paint mixing stations to be located at the Walt Disney World Complex (*these sources are located off the main Walt Disney World facility) in Orlando, Florida. A determination of Best Available Control Technology (BACT) was not required. The Department is issuing this Intent to Issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information:

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

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

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

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

Department of Environmental Regulation
Central District Office
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803-3767

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

Technical Evaluation
and
Preliminary Determination

Walt Disney World Company
Lake Buena Vista
Orange County, Florida

Permit Numbers:

AC 48-179646	"Knox-Out" Station
AC 48-179647	Plastic Blast-Media Booth
AC 48-179648	Central Shop Paint Mixing Station
AC 48-179649	Disney Beach and Yacht Spray Booth

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

July 20, 1990

SYNOPSIS OF APPLICATION

I. NAME AND ADDRESS OF APPLICANT

Walt Disney World Company
P. O. Box 10,000
Lake Buena Vista, FL 32830

II. REVIEWING AND PROCESS SCHEDULE

Date of Receipt of Application: April 26, 1990.

30 Days of Receipt of Application: Department's letter dated May 25, 1990.

Response to Incompleteness Letter: Walt Disney World's letter dated June 11, 1990.

Application Completeness Date: June 12, 1990

III. FACILITY INFORMATION

III.1 Facility Location

This facility, Walt Disney World Company, is located in Lake Buena Vista, Orlando, Orange County, Florida. The UTM coordinates are Zone 17, 459.69 km East and 3147.85 km West.

III.2 Facility and Source Identification Codes

Standard Industrial Classification Code (SIC):

Industry No. 7011-Hotel and Motels: Disney Beach & Yacht Club Spray Booth

Industry No. 7996-Amusement Park: Central Shop Paint Mixing Stations

Industry No. 2759: Park Printing "Knox-Out" Station

Industry No. 2511, 2522, 2599: Plastic Blast-Media Booth

Source Classification Code (SCC):

Park Printing "Knox-Out" Station: Wood Furniture Surface Coating: 4-02-019-99

Plastic Blast-Media Booth: 4-05-003-12 Flexographic

Central Shop Paint Mixing Stations: 4-90-999-98

(miscellaneous volatile organic compound evaporation)

Disney Beach and Yacht Club Spray Booth: 4-02-005-01

(Enamel coating application) & 4-02-001-01 (Paint: Solvent-base)

III.3 Facility Category

The Walt Disney Complex comprises several minor facility categories, classified under different industry numbers (SIC). The SIC for these facilities are listed in the attached Table 1.

IV. PROJECT DESCRIPTION

This project involves the construction of one spray booth, one solvent "knox-out" station, one blast-media booth and seven central shop mixing stations.

V. RULE APPLICABILITY

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

The Walt Disney Complex is located in Orange and Osceola Counties. All the projects being evaluated here are located in Orlando, an area designated as Air Maintenance for ozone and attainment for the other criteria pollutants, in accordance with F.A.C. Rules 17-2.460 and 17-2.420, respectively.

The proposed project is exempt from review under F.A.C. Rule 17-2.500, Prevention of Significant Deterioration (PSD) and 17-2.510, New Source Review for Nonattainment Areas (NSR) because it will be a minor modification to a minor facility.

The proposed project will be permitted under Rule 17-2.520, Sources not Subject to Prevention of Significant Deterioration or Nonattainment Requirements.

The proposed sources shall comply with F.A.C. Rule 17-2.620(1) and (2), General Pollutant Emission Limiting Standards; F.A.C. Rule 17-2.610, General Particulate Emission Limiting Standards; F.A.C. Rule 17-2.250, Excess Emissions; F.A.C. Rule 17-2.210, Circumvention; F.A.C. Rule 17-2.110, Permits Required; and F.A.C. Rule 17-2.700, Stationary Point Source Emission Test Procedures.

VI. SOURCE IMPACT ANALYSIS

The operation of the proposed sources will produce emissions of volatile organic compounds (VOC) and particulate matter (PM). The following are the estimated annual emissions from the proposed sources.

Source	Allowable Emissions			
	VOC		PM	
	lb/hr	ton/yr	lb/hr	ton/yr
Park Printing "Knox-Out" Station	0.60	1.74		
Plastic Blast-Media Booth			0.03	0.04
Central Shop Paint Mixing Stations	0.92	1.15		
Disney Beach and Yacht Club Paint Spray Booth	5.95	12.30	0.10	0.35

A baghouse will be used to control particulate emissions from the plastic blast media booth.

Visible emissions will be limited to 5% opacity. This limit will provide reasonable assurance that the sources are operating properly.

VI.1 Air Toxics Evaluation

The operation of these sources will produce emissions of volatile organic compounds that may be toxic in high concentrations. The emission rates of these chemicals (as listed in the MSDS submitted with the application) shall not create ambient concentrations greater than the acceptable ambient concentrations (AAC) as shown below. Determination of the AAC for these chemical organic compounds shall be determined by Department approved dispersion modeling or ambient air monitoring.

$$AAC = \frac{OEL}{\text{Safety Factor}}$$

Where,

AAC = acceptable ambient concentration

Safety Factor = 50 for category B substances and 8 hrs/day
 100 for category A substances and 8 hrs/day
 210 for category B substances and 24 hrs/day
 420 for category A substances and 24 hrs/day

OEL = Occupational exposure level such as ACGIH, OSHA and NIOSH published standards for toxic materials.

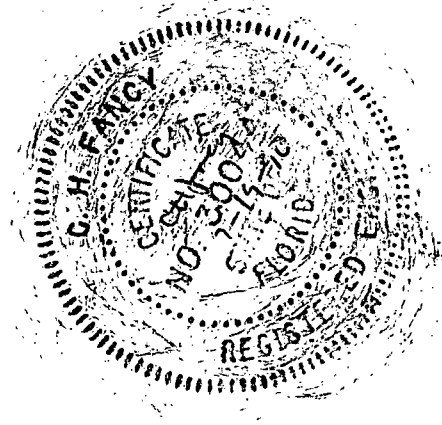
MSDS = Material Safety Data Sheets

VI.2 Air Quality Impact Analysis

The technical evaluation of this project determined that the installation and operation of these sources will not have a detrimental impact on Florida's ambient air quality.

VII. CONCLUSION

Based on the information provided by Walt Disney World Co., the Department has reasonable assurance that the proposed installation of the proposed sources, as described in this evaluation, and subject to the conditions proposed herein, will not cause or contribute to a violation of any air quality standard, PSD increment, or any other technical provision of Chapter 17-2 of the Florida Administrative Code.



List 1

DISNEY COMPLEX - SIC CLASSIFICATION

1. Industry No. 7011: Hotels and Motels

LBVCV Paint Spray Booth #1	WDW-27	LBVCV*
LBVCV Paint Spray Booth #2	WDW-28	LBVCV
Golf Course PSB*	WDW-29	Disney Inn
LBVCV Carpenter Shop	WDW-30	LBVCV
Caribbean Beach Resourt PSD	WDW-32	Caribbean BR*
Service Bldg. Boiler	CBB-1	Caribbean BR
Grand Floridian Boilers	GFB-1 thru GFB-19	Grand Fla. Hotel

*LBVCV: Lake Buena Vista Community Village

*PSB: Paint Spray Booths

*BR: Beach Resort

2. Industry No. 7218: Industrial Launderers

Dry Cleaning Plant	DCP-1	North Service Area*
Laundry Boilers (#1,2,3)	LBB-1	NSA
Laundry Boilers (#4)	LBB-2	NSA

*NSA: North Service Area

3. Industry No. 7812: Motion Picture and Video Production

Studio Craft PSB	WDW-21	Studio Tours
Studio Craft Carpenter Shop	WDW-22	Studio Tours
Studio Tours Boilers	STB-1 thru STB-8	Studio Tours

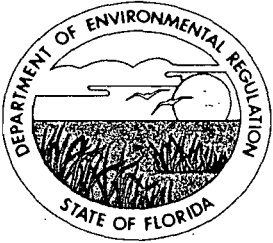
4. Industry No. 7996: Amusement Parks

Staff Shop Spray Booth #1	WDW-1	NSA
Staff Shop Spray Booth #2	WDW-2	NSA

Water Wash Plastisol Booth #1	WDW-3	NSA
Cool Room Carpenter Shop	WDW-4	NSA
Metalizing Spray Booth	WDW-5	NSA
Lofting Bldg. PSD	WDW-6	NSA
Sawdust Collector Baghouse	WDW-7	NSA
Paint Shop Spray Booth #1	WDW-8	NSA
Paint Shop Spray Booth #2	WDW-9	NSA
Paint Shop Spray Booth #3	WDW-10	NSA
Paint Shop Spray Booth #4	WDW-11	NSA
Paint Shop Spray Booth #5	WDW-12	NSA
Sandblasting Chamber	WDW-13	NSA
Character Head Spray Box	WDW-17	NSA
Artists' Preparation Shop	WDW-20	NSA
Entertainment Support PSB	WDW-23	Magic Kingdom
EPCOT PSB #1	WDW-24	EPCOT Center
EPCOT PSD #2	WDW-25	EPCOT Center
Buena Vista Construction PSD	WDW-26	BV Construction Co.
River and Pool Heaters	TLB-1 thru TLB-4	Typhoon Lagoon

Note: Walt Disney sources outside of the Disney Complex are as follows:

Regency Industrial Park Paint PSB #1	RIP-1	Regency Industrial Park, Orlando
Regency Industrial Park Paint PSD #2	RIP-2	RIP
Regency Industrial Park Paint PSD #3	RIP-3	RIP
Regency Industrial Park Paint PSD #4	RIP-4	RIP



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

PERMITTEE:

Walt Disney World Co.
P. O. Box 10,000
Lake Buena Vista, FL 32830

Permit Number: AC 48-179646

Expiration Date: March 30, 1991

County: Orange

Latitude/Longitude: 28°27'25"N
81°24'40"W

Project: Park Printing "Knox-Out"
Station

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

For the construction of a Park Printing "Knox-Out" Station to be located at 7481 President's Drive in Orlando, Orange County, Florida. The UTM coordinates are 459.69 km East and 3147.85 km North.

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

Attachments are listed below:

1. Walt Disney application forms received on April 26, 1990.
2. Department's letter dated May 25, 1990.
3. Walt Disney World's letter dated June 11, 1990.

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179646
Expiration Date: March 30, 1991

GENERAL CONDITIONS:

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

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179646
Expiration Date: March 30, 1991

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179646
Expiration Date: March 30, 1991

GENERAL CONDITIONS:

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

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

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

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

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

13. The permittee shall comply with the following:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179646
Expiration Date: March 30, 1991

GENERAL CONDITIONS:

records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

c. Records of monitoring information shall include:

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

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

SPECIFIC CONDITIONS:

Emission Limits

1. The maximum allowable VOC emissions shall not exceed 0.60 lbs/hr and 1.74 tons/yr. These emissions shall be verifiable on a 24-hr (daily) basis.

2. Visible emissions shall not exceed 5% opacity.

3. Unless the Department has determined other concentrations are required to protect public health and safety, predicted ambient air impact of any toxic pollutant (as listed in the MSDS submitted with the application) shall not exceed the concentration calculated by the following formula:

$$AAC = \frac{OEL}{\text{Safety Factor}}$$

Where,

AAC = acceptable ambient concentration

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179646
Expiration Date: March 30, 1991

SPECIFIC CONDITIONS:

Safety Factor = 50 for category B substances and 8 hrs/day
100 for category A substances and 8 hrs/day
210 for category B substances and 24 hrs/day
420 for category A substances and 24 hrs/day

OEL = Occupational exposure level such as ACGIH, OSHA and NIOSH published standards for toxic materials.

Compliance Determination

4. Compliance with the VOC standard shall be determined by EPA Method 24, Determination of Volatile Matter Content. The aforementioned method is contained in 40 CFR 60, Appendix A (July 1, 1988), and is adopted by reference in Rule 17-2.700, F.A.C.
5. Compliance with the visible emissions (V.E.) standard, shall be determined by EPA Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources, which is described in 40 CFR 60, Appendix A (July 1, 1988).
6. The permittee shall notify the DER's Central District office in writing at least 15 days in advance of the compliance test. Compliance test results shall be submitted to the District office not later than 45 days after the final run.
7. When the Department, after investigation, has good reason (such as complaints, increased visible emissions, etc.), to believe that any applicable emission standard contained in F.A.C. Chapter 17-2, or in this permit is being violated, it may require the owner or operator of the source to conduct compliance tests which identify the nature and quantity of air pollutant emissions from the source and to provide a report on the results of the tests to the Department.
8. If any spills, leaks, releases, etc., occur; the DER Central District office shall be promptly notified.
9. Compliance with the acceptable ambient concentrations shall be demonstrated based on calculations certified by a Professional Engineer registered in Florida using actual operating conditions. Determination of the ambient concentration for organic compounds shall be determined by Department approved dispersion modeling or ambient air monitoring.

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179646
Expiration Date: March 30, 1991

SPECIFIC CONDITIONS:

Operating Rates

10. This source is allowed to operate 16 hrs/day, 7 days/wk, and 52 wks/yr.

11. The maximum material utilization rates are as stated in the application for the specific coatings and solvents which are to be used.

12. Any change in the method of operation, raw materials, equipment or operating hours shall be submitted to DER's Central District office for approval.

Rule Requirements

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

14. This permit does not preclude compliance with any applicable federal, state, or local permitting requirements and regulations (F.A.C. Rule 17-2.210(1)).

15. According to F.A.C. Rule 17-2.620(1)(a), no person shall store, pump, handle, process, load, unload, or use in any process or installation volatile organic compounds or organic solvents without applying known and existing vapor emissions control devices or systems deemed necessary and ordered by the Department. Currently, there are no control strategies associated with this operation other than crew efficiency to minimize pollutant emissions. The following procedures shall be utilized to minimize pollutant emissions, but shall not be limited to:

- maintain tightly fitting covers, lids, etc., on all containers of VOC when they are not being handled, tapped, etc.;
- prevent excessive air turbulence across exposed VOCs;
- where possible and practical, procure/fabricate a tightly fitting cover for any open trough, basin, bath, etc., of VOC so that it can be covered when not in use;
- all fittings, valve lines, etc., shall be properly maintained; and,
- all VOC spills shall be attended to immediately and the waste properly disposed of, recycled, etc.

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179646
Expiration Date: March 30, 1991

SPECIFIC CONDITIONS:

16. No person shall cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor pursuant to F.A.C. Rule 17-2.620(2). Objectionable odor is defined as any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance pursuant to F.A.C. Rule 17-2.100(135).

17. Pursuant to F.A.C. 17-2.210(2) Air Operating Permits, the permittee will be required to submit annual reports on the actual operating rates and emissions from this source. These reports shall include but are not limited to the following: utilization rates (lbs/yr), VOC emissions (tons/yr, lbs/day, and lbs/hr), and annual hours of operation. Annual reports shall be sent to the Department's Central District office.

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

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

Issued this _____ day
of _____, 1990

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

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



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

PERMITTEE:
Walt Disney World Co.
P. O. Box 10,000
Lake Buena Vista, FL 32830

Permit Number: AC 48-179647
Expiration Date: March 30, 1991
County: Orange
Latitude/Longitude: 28°23'57"N
81°24'01"W
Project: Plastic Blast-Media
Booth

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

For the construction of a plastic blast-media booth to be located at 736 Central Florida Parkway in Orlando, Orange County, Florida. The UTM coordinates are 460.595 km East and 3141.571 km North.

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

Attachments are listed below:

1. Walt Disney application forms received on April 26, 1990.
2. Department's letter dated May 25, 1990.
3. Walt Disney World's letter dated June 11, 1990.

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179647
Expiration Date: March 30, 1991

GENERAL CONDITIONS:

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

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179647
Expiration Date: March 30, 1991

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179647
Expiration Date: March 30, 1991

GENERAL CONDITIONS:

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

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

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

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

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

13. The permittee shall comply with the following:

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

b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179647
Expiration Date: March 30, 1991

GENERAL CONDITIONS:

records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

c. Records of monitoring information shall include:

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

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

SPECIFIC CONDITIONS:

Emission Limits

1. The maximum allowable PM emissions shall not exceed 0.03 lbs/hr and 0.04 tons/yr.
2. Visible emissions shall not exceed 5% opacity.

Compliance Determination

3. Compliance with the PM standard shall be determined by EPA Method 5, Determination of Particulate Matter Emission Content from Stationary Sources. The aforementioned method is contained in 40 CFR 60, Appendix A (July 1, 1988), and is adopted by reference in Rule 17-2.700, F.A.C.

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179647
Expiration Date: March 30, 1991

SPECIFIC CONDITIONS:

4. Compliance with the visible emissions (V.E.) standard, shall be determined by EPA Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources, which is described in 40 CFR 60, Appendix A (July 1, 1988).

5. The permittee shall notify the DER's Central District office in writing at least 15 days in advance of the compliance test. Compliance test results shall be submitted to the District office not later than 45 days after the final run.

6. When the Department, after investigation, has good reason (such as complaints, increased visible emissions, etc.), to believe that any applicable emission standard contained in F.A.C. Chapter 17-2, or in this permit is being violated, it may require the owner or operator of the source to conduct compliance tests which identify the nature and quantity of air pollutant emissions from the source and to provide a report on the results of the tests to the Department.

7. If any spills, leaks, releases, etc., occur; the DER Central District office shall be promptly notified.

Operating Rates

8. This source is allowed to operate 8 hrs/day, 7 days/wk, and 52 wks/yr.

9. The maximum material utilization rates are as stated in the application for the specific coatings and solvents which are to be used.

10. Any change in the method of operation, raw materials, equipment or operating hours shall be submitted to DER's Central District office for approval.

Rule Requirements

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

12. This permit does not preclude compliance with any applicable federal, state, or local permitting requirements and regulations (F.A.C. Rule 17-2.210(1)).

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179647
Expiration Date: March 30, 1991

SPECIFIC CONDITIONS:

13. No person shall cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor pursuant to F.A.C. Rule 17-2.620(2). Objectionable odor is defined as any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance pursuant to F.A.C. Rule 17-2.100(135).

14. Pursuant to F.A.C. 17-2.210(2) Air Operating Permits, the permittee will be required to submit annual reports on the actual operating rates and emissions from this source. These reports shall include but are not limited to the following: utilization rates (lbs/yr), PM emissions (tons/yr, lbs/day, and lbs/hr), and annual hours of operation. Annual reports shall be sent to the Department's Central District office.

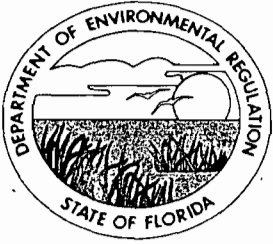
15. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Bureau of Air Regulation prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).

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

Issued this _____ day
of _____, 1990

**STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION**

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



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

PERMITTEE:

Walt Disney World Co.
P. O. Box 10,000
Lake Buena Vista, FL 32830

Permit Number: AC 48-179648
Expiration Date: March 30, 1991
County: Orange
Latitude/Longitude: 28°25'32"N
81°34'36"W

Project: Central Shops Paint
Mixing Stations

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

For the construction of seven (7) Fellon-Pinchon Model 23-39-00 mixing stations to be located at Facilities Way in Baylake, Orange County, Florida. The UTM coordinates are 443.512 km East and 3144.219 km North.

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

Attachments are listed below:

1. Walt Disney application forms received on April 26, 1990.
2. Department's letter dated May 25, 1990.
3. Walt Disney World's letter dated June 11, 1990.

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179648
Expiration Date: March 30, 1991

GENERAL CONDITIONS:

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

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179648
Expiration Date: March 30, 1991

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179648
Expiration Date: March 30, 1991

GENERAL CONDITIONS:

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

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

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

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

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

13. The permittee shall comply with the following:

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

b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179648
Expiration Date: March 30, 1991

GENERAL CONDITIONS:

records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

c. Records of monitoring information shall include:

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

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

SPECIFIC CONDITIONS:

Emission Limits

1. The maximum allowable VOC emissions shall not exceed 0.13 lbs/hr and 0.17 tons/yr per booth. These emissions shall be verifiable on a 24-hr (daily) basis.

2. Visible emissions shall not exceed 5% opacity.

3. Unless the Department has determined other concentrations are required to protect public health and safety, predicted ambient air impact of any toxic pollutant (as listed in the MSDS submitted with the application) shall not exceed the concentration calculated by the following formula:

$$AAC = \frac{OEL}{\text{Safety Factor}}$$

Where,

AAC = acceptable ambient concentration

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179648
Expiration Date: March 30, 1991

SPECIFIC CONDITIONS:

Safety Factor = 50 for category B substances and 8 hrs/day
100 for category A substances and 8 hrs/day
210 for category B substances and 24 hrs/day
420 for category A substances and 24 hrs/day

OEL = Occupational exposure level such as ACGIH, ASHA and NIOSH published standards for toxic materials.

Compliance Determination

4. Compliance with the VOC standard shall be determined by EPA Method 24, Determination of volatile matter content. The aforementioned method is contained in 40 CFR 60, Appendix A (July 1, 1988), and is adopted by reference in Rule 17-2.700, F.A.C.
5. Compliance with the visible emissions (V.E.) standard, shall be determined by EPA Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources, which is described in 40 CFR 60, Appendix A (July 1, 1988).
6. The permittee shall notify the DER's Central District office in writing at least 15 days in advance of the compliance test. Compliance test results shall be submitted to the District office not later than 45 days after the final run.
7. Compliance with the acceptable ambient concentrations shall be demonstrated based on calculations certified by a Professional Engineer registered in Florida using actual operating conditions. Determination of the ambient concentration for organic compounds shall be determined by Department approved dispersion modeling or ambient air monitoring.
8. When the Department, after investigation, has good reason (such as complaints, increased visible emissions, etc.), to believe that any applicable emission standard contained in F.A.C. Chapter 17-2, or in this permit is being violated, it may require the owner or operator of the source to conduct compliance tests which identify the nature and quantity of air pollutant emissions from the source and to provide a report on the results of the tests to the Department.
9. If any spills, leaks, releases, etc., occur; the DER Central District office shall be promptly notified.

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179648
Expiration Date: March 30, 1991

SPECIFIC CONDITIONS:

Operating Rates

10. This source is allowed to operate 8 hrs/day, 6 days/wk, and 52 wks/yr.

11. The maximum material utilization rates are as stated in the application for the specific coatings and solvents which are to be used.

12. Any change in the method of operation, raw materials, equipment or operating hours shall be submitted to DER's Central District office for approval.

Rule Requirements

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

14. This permit does not preclude compliance with any applicable federal, state, or local permitting requirements and regulations (F.A.C. Rule 17-2.210(1)).

15. According to F.A.C. Rule 17-2.620(1)(a), no person shall store, pump, handle, process, load, unload, or use in any process or installation volatile organic compounds or organic solvents without applying known and existing vapor emissions control devices or systems deemed necessary and ordered by the Department. Currently, there are no control strategies associated with this operation other than crew efficiency to minimize pollutant emissions. The following procedures shall be utilized to minimize pollutant emissions, but shall not be limited to:

- maintain tightly fitting covers, lids, etc., on all containers of VOC when they are not being handled, tapped, etc.;
- prevent excessive air turbulence across exposed VOCs;
- where possible and practical, procure/fabricate a tightly fitting cover for any open trough, basin, bath, etc., of VOC so that it can be covered when not in use;
- all fittings, valve lines, etc., shall be properly maintained; and,
- all VOC spills shall be attended to immediately and the waste properly disposed of, recycled, etc.

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179648
Expiration Date: March 30, 1991

SPECIFIC CONDITIONS:

16. No person shall cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor pursuant to F.A.C. Rule 17-2.620(2). Objectionable odor is defined as any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance pursuant to F.A.C. Rule 17-2.100(135).

17. Pursuant to F.A.C. 17-2.210(2) Air Operating Permits, the permittee will be required to submit annual reports on the actual operating rates and emissions from this source. These reports shall include but are not limited to the following: utilization rates (lbs/yr), VOC emissions (tons/yr, lbs/day, and lbs/hr), and annual hours of operation. Annual reports shall be sent to the Department's Central District office.

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

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

Issued this _____ day
of _____, 1990

**STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION**

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



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

PERMITTEE:

Walt Disney World Co.
P. O. Box 10,000
Lake Buena Vista, FL 32830

Permit Number: AC 48-179649
Expiration Date: March 30, 1991
County: Orange
Latitude/Longitude: 28°22'15"N
81°33'41"W

Project: Disney Beach and Yacht
Club Paint Spray Booth

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

For the construction of a spray booth located at the Disney Beach and Yacht Club in Orlando, Florida. The UTM coordinates are 444.998 km East and 3138.265 km North.

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

Attachments are listed below:

1. Walt Disney application forms received on April 26, 1990.
2. Department's letter dated May 25, 1990.
3. Walt Disney World's letter dated June 11, 1990.

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179649
Expiration Date: March 30, 1991

GENERAL CONDITIONS:

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

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179649
Expiration Date: March 30, 1991

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179649
Expiration Date: March 30, 1991

GENERAL CONDITIONS:

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

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

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

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

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

13. The permittee shall comply with the following:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179649
Expiration Date: March 30, 1991

SPECIFIC CONDITIONS:

the owner or operator of the source to conduct compliance tests which identify the nature and quantity of air pollutant emissions from the source and to provide a report on the results of the tests to the Department.

10. If any spills, leaks, releases, etc., occur; the DER Central District office shall be promptly notified.

Operating Rates

11. This source is allowed to operate 16 hrs/day, 5 days/wk, and 52 wks/yr.

12. The maximum material utilization rates are as stated in the application for the specific coatings and solvents which are to be used.

13. Any change in the method of operation, raw materials, equipment or operating hours shall be submitted to DER's Central District office for approval.

Rule Requirements

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

15. This permit does not preclude compliance with any applicable federal, state, or local permitting requirements and regulations (F.A.C. Rule 17-2.210(1)).

16. According to F.A.C. Rule 17-2.620(1)(a), no person shall store, pump, handle, process, load, unload, or use in any process or installation volatile organic compounds or organic solvents without applying known and existing vapor emissions control devices or systems deemed necessary and ordered by the Department. Currently, there are no control strategies associated with this operation other than crew efficiency to minimize pollutant emissions. The following procedures shall be utilized to minimize pollutant emissions, but shall not be limited to:

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179649
Expiration Date: March 30, 1991

SPECIFIC CONDITIONS:

- maintain tightly fitting covers, lids, etc., on all containers of VOC when they are not being handled, tapped, etc.;
- prevent excessive air turbulence across exposed VOCs;
- where possible and practical, procure/fabricate a tightly fitting cover for any open trough, basin, bath, etc., of VOC so that it can be covered when not in use;
- all fittings, valve lines, etc., shall be properly maintained; and,
- all VOC spills shall be attended to immediately and the waste properly disposed of, recycled, etc.

17. No person shall cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor pursuant to F.A.C. Rule 17-2.620(2). Objectionable odor is defined as any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance pursuant to F.A.C. Rule 17-2.100(135).

18. Pursuant to F.A.C. 17-2.210(2) Air Operating Permits, the permittee will be required to submit annual reports on the actual operating rates and emissions from this source. These reports shall include but are not limited to the following: utilization rates (lbs/yr), VOC and PM emissions (tons/yr, lbs/day, and lbs/hr), and annual hours of operation. Annual reports shall be sent to the Department's Central District office.

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

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

PERMITTEE:
Walt Disney World Company

Permit Number: AC 48-179649
Expiration Date: March 30, 1991

SPECIFIC CONDITIONS:

Issued this _____ day
of _____, 1990

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

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



Walt Disney World Co.

RECEIVED

JUN 18 1990

DER-BAQM

June 11, 1990

Mr. C.H. Fancy, P.E.
Chief, Bureau of Air Regulation
Florida Department of
Environmental Regulation
2600 Blair Stone Road
Tallahassee, FL 32399

Dear Mr. Fancy:

RE: AC 48-179646 - "Knox-Out" Station
AC 48-179647 - Plastic Blast Media Booth
AC 48-179648 - Central Shops Paint Mixing Stations
AC 48-179649 - Disney Beach & Yacht Club Spray Booth

The following information is submitted in response to your letter to me dated May 25, 1990.

1) The Standard Industry Code for the above referenced sources are:

Knox-Out Station - 2759
Plastic Blast Booth - 2511, 2522, 2599
Central Shops Mixing Stations - 7996
Disney Beach & Yacht Club Spray Booth - 7011

The "Knox-Out" Station is part of a tee-shirt silk screening operation. S.I.C. Code 2759 - Commercial Printing, nec, refers to this process and should not be confused with other types of printing.

2) The acceptable ambient air concentrations have been calculated and are included as Attachment I. Since the Plastic Blast-Media Booth emits particulates only, ambient air concentrations were not calculated for this source.

3) A description of the process involved for each source follows:

AC 48-179646 - Knox-Out Station

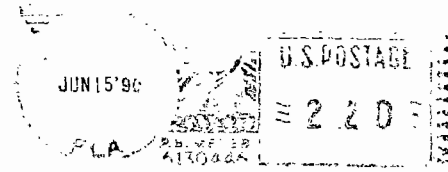
This station is located at "Park Printing", which is an apparel (mainly shirts) silk screening facility. Small flaws in the finished product are removed using the Knox-Out compound.

BEST AVAILABLE COPY



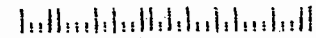
Walt Disney World Co.

P.O. Box 10,000
Lake Buena Vista, Florida 32830-1000



Mr. C.H. Fancy, P.E.
Chief, Bureau of Air Regulation
Florida Department of
Environmental Regulation
2600 Blair Stone Road
Tallahassee, FL 32399

RETURN RECEIPT REQUESTED





Page 2
Mr. C.H. Fancy
June 11, 1990

AC 48-179647 - Plastic Blast Media Booth

The plastic media is used to strip paint from hotel furniture. Plastic media is used because it does not damage the substrate.

AC 48-179648 - Central Shops Paint Mixing Stations

Custom shades of paint are formulated for use in attractions and other show areas. The stations evacuate the area while the tinting process takes place.


AC 48-179649 - Disney Beach and Yacht Club Spray Booth

This spray booth will be used to paint miscellaneous objects as required by the Hotel's operations and maintenance departments.

- 4) All the Paint Mixing Stations are identified as source number WDW36 and are located within Central Shops.
- 5) The total permitted emissions for the Walt Disney World Resort Complex are summarized in Attachment II.

If you have any questions or concerns, don't hesitate to contact Armando Rodriguez at (407)824-4985.

Sincerely,

fr 
Bob Penn
Director
Environmental Affairs

/ko
Enclosures

cc: J. Deon
C. Collins
CHP/BA

ATTACHMENT I

SOURCE COMPOUND	PARAMETER	EMISSION RATE (LB/HR)	8 HOUR		24 HOUR	
			NTL	PAI	NTL	PAI
AC48-179646/ KNOX-OUT	PERCHLOROETHYLENE	0.30	3350	127	798	70.5
	METHYLENE CHLORIDE	0.30	1750	127	417	70.5
AC48-179648/ VARIOUS PAINTS MIXING STATIONS #1,2,3,4,6,7	TOTAL V.O.C.'s	0.13	270*	56.37	64	31.31
MIXING STATION #5		0.13	270*	56.35	64	31.35
AC48-179649 SPRAY ENAMEL	MEK	0.20	5900	21.06	1405	11.7
	TOLUENE	.04				
	ETHOXYETHYL ACETATE	.04	270	4.21	64	2.3
	XYLENE	0.14	4350	14.74	1036	8.2
	ACRYLONITRILE	.002	45	0.21	11	0.12
AMERFLYNT	TOLUENE	0.79				
	MEK	0.39	5900	41.07	1405	22.8
	XYLENE	0.79	4350	83.2	1036	46.2
	ETHYL ACETATE	0.28	28000	29.5	13333	16.4
EPOXY POLYMER	TOLUENE	0.79				
	ISOPROPYL	0.64	5000	67.4	1190	37.5
	XYLENE	0.60	4350	63.2	1036	37.5
	MEK	0.60	5900	63.2	1405	37.5
	PROSPHORIC ACID	0.03	10	3.2	2.4	1.8

*THIS NTL IS FOR ETHOXYETHYL ACETATE, THE MOST RESTRICTIVE OF THE PAINT COMPOUNDS FOUND IN SIGNIFICANT QUANTITIES.

NTL - NO THREAT LIMIT, ug/M³
PAI - PREDICTED AMBIENT IMPACT, ug/M³

ATTACHMENT II

<u>SIC CODE</u>	<u>PERMIT NUMBER</u>	<u>PERMITTED VOC EMISSIONS (TPY)</u>
7011-MOTELS & HOTELS	A048-172541-B.V. VILLAGE	25.3
	A048-169580-GOLF COURSE	4.4
	TOTAL	29.7
7218-INDUSTRIAL LAUNDERERS	A048-155895-LAUNDRY	50.9 (CALCULATED)
	TOTAL	50.9
7812-MOTION PICTURE & VIDEO TAPE PRODUCTION	A048-172592-STUDIO PAINT BOOTH	1.0
	TOTAL	1.0
7996-AMUSEMENT PARKS	A048-118224-SIX BOOTHS IN CENTRAL SHOPS	15.4
	AC48-151472-SIX BOOTHS IN CENTRAL SHOPS	23.9
	A048-172594-ENTERTAINMENT SUPPORT	0.5
	A048-164837-EPCOT CENTER PAINT BOOTHS	11.5
	AC48-166499-EPCOT MARINA	0.9
	A048-169552	7.73
	TOTAL	60.9

SAMPLE CALCULATION

KNOX-OUT

HB = 40 FT.

FLOW RATE = 249 CFM

HS = 42 FT.

DISTANCE TO PROPERTY LINE = 100 FT.

$$df = \frac{dfo}{10 \text{ VFR}} = \frac{52535}{10 \frac{249}{2119}} = 44,707.5$$

$$8 \text{ HOUR D.F.} = \frac{44,707.5}{18} = 2483.8$$

$$24 \text{ HOUR D.F.} = \frac{44,707.5}{10} = 4470.8$$

STACK CONCENTRATION:

USAGE = 0.595 LB/HR

50% PERCHLOROETHYLENE - 0.30 LB/HR

50% METHYLENE CHLORIDE- 0.30 LB/HR

$$\frac{.30 \text{ LB} \times 454,000,000 \text{ ug}}{\text{HR}} \times \frac{1 \text{ HR}}{60 \text{ MIN}} \times \frac{1 \text{ MIN}}{60 \text{ SEC}} = 37833.3 \frac{\text{ug}}{\text{SEC}}$$

$$\frac{249 \text{ CFM}}{2119 \frac{\text{CFM}}{\text{M3/SEC}}} = 0.12 \frac{\text{M3}}{\text{SEC}}$$

$$\frac{37833.3 \text{ ug/SEC}}{0.12 \text{ M3/SEC}} = 315,277.8 \frac{\text{ug}}{\text{M3}}$$

$$8 \text{ HR PAI} = \frac{315,277.8}{2,483.8} = \underline{\underline{126.9}} = \frac{\text{ug}}{\text{M3}}$$

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

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

3. Article Addressed to: Robert Penn, Director Env. Affairs WDW Co. P.O. Box 10,000 Lake Buena Vista, FL 32830	4. Article Number P 052 482 270 Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature — Address X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature — Agent X TB	
7. Date of Delivery 5-25-90	

PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT

P 052 482 270
 RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

Sent to	Robert H. Penn
Street and No.	WDW - P.O. Box 10,000
P.O. State and ZIP Code	Lake Buena Vista, FL
Postage	S
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	S
Postmark or Date	5-25-90
	AC 48-179646, 647
	648 & 649

PS Form 3800, June 1985



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

May 25, 1990

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Robert H. Penn
Director, Environmental Affairs
Walt Disney World Company
P. O. Box 10,000
Lake Buena Vista, Florida 32830

Dear Mr. Penn:

Re: AC 48-179646, "Knox-Out" Station
AC 48-179647, Plastic Blast-Media Booth
AC 48-179648, Central Shop Paint Mixing Stations
AC 48-179649, Disney Beach & Yacht Club Spray Booth

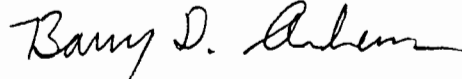
The Department has reviewed your applications for permits to construct the above mentioned sources at the Walt Disney World facility near Orlando, Orange County, Florida. We need more information to process these applications. Please complete the applications by supplying the information requested below.

- Do all of these spray booths belong to the same Industry Number 7996, Amusement Park? If not, please indicate the correct Industry Number for these sources (refer to the DER SIC classification done for your facility in 1989).
- Calculate the acceptable ambient air concentrations for each hazardous chemical used at these sources (refer to the attached toxic guideline policy).
- Give a brief description of the process involved for each source.
- Are all seven (7) paint mixing stations located at the area identified as WDM36? If not, please list their locations.
- Since the Walt Disney complex as a whole has been classified as a minor facility, please quantify the total actual pollutant emissions (tons per year) for each affected source within the same facility classification (i.e., Industry No. 7996: Amusement Park or Industry No. 7011: Hotel & Motels, etc.).

Mr. Robert H. Penn
Page 2
May 25, 1990

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

Sincerely,



for

C. H. Fancy, P.E.
Chief

Bureau of Air Regulation

CHF/plm

c: Charles Collins



WALT DISNEY World Co.

RECEIVED
DER - MAIL ROOM
1990 APR 26 PM 1:41

April 23, 1990

Mr. Clair Fancy
Bureau of Air Quality Management
Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, FL 32301

RECEIVED

APR 26 1990

Dear Mr. Fancy:

DER-BAQM

Enclosed are four applications to construct air pollution sources and a check for \$800 to cover the processing fees.

Please note that two sources, Park Printing "Knox Out" and Regency Park "Blast Booth" are located off the main Walt Disney World Co. property.

Should you require any further information, please do not hesitate to contact me at (407)824-6962.

Sincerely,

Armando Rodriguez
Manager
Environmental Control

/kot
Enclosures

POST OFFICE TO ADDRESSEE EXPRESS MAIL NEXT DAY SERVICE

NB

749 776 044

ORIGIN		Date M	Postage
Post Office ZIP Code	Time In A.M. P.M.		Postage Request \$
Weight of Parcel(s) lb. oz.	Weight lb. oz.		Postage \$
ACCEPTANCE			
<input type="checkbox"/> Mail by Priority	<input type="checkbox"/> Express Mail Service		
<input type="checkbox"/> To B Home	<input type="checkbox"/> To B Office		
<input type="checkbox"/> Priority Mail Delivery Service	<input type="checkbox"/> International Express Mail		
	Customer Code		

DESTINATION		Date of Delivery	Time of Delivery A.M. P.M.
Signature of addressee or Agent			
X	DELIVERY WAS ATTEMPTED		
Signature of Delivery Employee			

Waiver of Signature and Indemnity (Domestic Only)

I will deliver to the addressee without obtaining the signature of the addressee or the addressee's agent. If, in the judgment of the delivery employee, the article can be left in a secure location and I authorize the delivery employee to sign that the shipment was delivered and understood that the signature of the delivery employee will constitute valid proof of delivery.

SIGNED _____

Express Mail Corporate Account No. _____

Federal Agency Account No. _____

FROM:

DISNEY WORLD CO.
 ENVIRONMENTAL CONTROL DEPT.
 BOX 16, DEPT.
 WEA VISTA, FL 32801

ADDRESSEE'S COPY

TO: Telephone Number: _____

MR. CLAIR FANCY
 BUREAU OF AIR QUALITY MANAGEMENT
 DEPT. OF ENVIRONMENTAL REGULATION
 2600 BLAIR STONE ROAD
 TALLAHASSEE, FL 32301

Label 11-B (July 1988) * U.S.G.P.O. - 1988-195-062; 195-369



TO-

Mr. Clair Fancy
 Bureau of Air Quality Management
 Dept. of Environmental Regulation
 2600 Blair Stone Road
 Tallahassee, FL 32301

EXPRESS MAIL **CERTIFIED**



Walt Disney World Co.

Walt Disney World Co.
Lake Buena Vista, Florida 32830

82-81
1021

CHECK NO.
00007421

007421

EIGHT HUNDRED DOLLARS NO CENTS

PAY TO THE ORDER OF
FL DEPT/ENVIRONMNTL REGUL
2600 BLAIR STONE RD
TALLAHASSEE FL 32399

DATE CHECK AMOUNT
4-23-90 *****800.00

Walt Disney World Co.

BY

William A. O'Loe

SA UNITED BANK OF GRAND JUNCTION N.A., GRAND JUNCTION, CO.



Walt Disney World Co.

ATTENDANCE ADVICE:
PAYING AGENT FOR... WALT DISNEY WORLD CO.

DATE
4-23-90
03 61

007421

CHECK NO.
00007421
46492

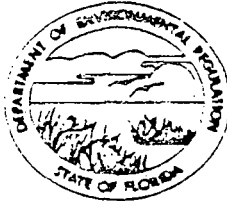
DATE	INVOICE OR CREDIT MEMO NUMBER	TYPE	DESCRIPTION	REFERENCE NO.	GROSS	AMOUNTS DISCOUNTS	NET
4-17-90	CK R/FEES		AIR POLLUTION SOURCE APPLICATION FEES	08 042090	80000		80000
TOTAL					80000		80000

THE ATTACHED CHECK IS IN PAYMENT FOR ITEMS DESCRIBED ABOVE.

WDW-34 #200pd
4-26-90
Receipt #154117

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2500 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



AC 48-179646

BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Solvent Exhaust Station [] New¹ [] Existing¹
APPLICATION TYPE: [] Construction [] Operation [] Modification
COMPANY NAME: Walt Disney World Company COUNTY: Orange

Identify the specific emission point source(s) addressed in this application (i.e. Line
Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Park Printing "Knox-Out"
SOURCE LOCATION: Street 7481 President's Drive City Orlando Station

UTM: East 459.690 North 3147.853
See Figure 1 Latitude 28° 27' 25" N Longitude 81° 24' 40" W

APPLICANT NAME AND TITLE: Walt Disney World Company
APPLICANT ADDRESS: P.O. Box 10,000, Lake Buena Vista, Florida 32830

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative of Walt Disney World Company
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. I
also understand that a permit, if granted by the department, will be non-transferable
and I will promptly notify the department upon sale or legal transfer of the permitted
establishment.

*Attach letter of authorization

Signed: Robert H. Penn
Robert H. Penn, Director, Environmental Affairs
Name and Title (Please Type)

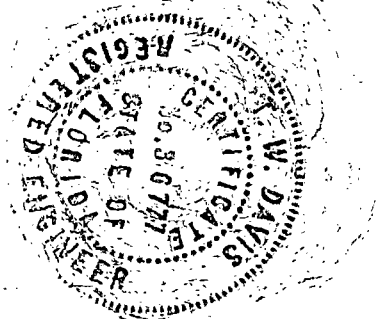
Date: 4-24-90 Telephone No. (407)824-4281

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

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

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

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



Signed Thomas W. Davis
 Thomas W. Davis
 Name (Please Type)
 Environmental Science and Engineering
 Company Name (Please Type)
 P.O. Box 1703, Gainesville, Florida 32602
 Mailing Address (Please Type)

Florida Registration No. 36777 Date: 4/20/90 Telephone No. (904) 332-3318

SECTION II: GENERAL PROJECT INFORMATION

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

The commercial solvent "Knox-out" is utilized to remove unwanted PVC from printed material. The work is conducted in a station that will be vented to the atmosphere.
A Material Safety Data Sheet (MSDS) for "Knox-out" is included as Attachment A.

B. Schedule of project covered in this application (Construction Permit Application Only)
 Start of Construction June 1, 1990 Completion of Construction June 30, 1990

C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)
None

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.
None

E. Requested permitted equipment operating time: hrs/day 16 ; days/wk 7 ; wks/yr 52 ;
if power plant, hrs/yr _____ ; if seasonal, describe: _____

F. If this is a new source or major modification, answer the following questions.
(Yes or No)

1. Is this source in a non-attainment area for a particular pollutant? No
a. If yes, has "offset" been applied? _____
b. If yes, has "Lowest Achievable Emission Rate" been applied? _____
c. If yes, list non-attainment pollutants. _____

2. Does best available control technology (BACT) apply to this source?
If yes, see Section VI. No

3. Does the State "Prevention of Significant Deterioration" (PSD)
requirement apply to this source? If yes, see Sections VI and VII. No

4. Do "Standards of Performance for New Stationary Sources" (NSPS)
apply to this source? No

5. Do "National Emission Standards for Hazardous Air Pollutants"
(NESHAP) apply to this source? No

H. Do "Reasonably Available Control Technology" (RACT) requirements apply
to this source? No

a. If yes, for what pollutants? _____

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

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

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

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

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
"Knox-out"	VOC	100	0.595	

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

1. Total Process Input Rate (lbs/hr): Not Applicable

2. Product Weight (lbs/hr): Not Applicable

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

Name of Contaminant	Emission ¹		Allowed Emission Rate per Rule 17-2	Allowable ³ Emission lbs/hr	Potential ⁴ Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
VOC	0.595	1.74	N/A	N/A	3475	1.74	
See Attachment B for Emission Calculations, Assume 16 hr/day operation.							

¹See Section V, item 2.

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

³Calculated from operating rate and applicable standard.

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

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

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
None				

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
None			

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

Fuel Analysis:

Percent Sulfur: _____ Percent Ash: _____

Density: _____ lbs/gal Typical Percent Nitrogen: _____

Heat Capacity: _____ BTU/lb _____ BTU/gal

Other Fuel Contaminants (which may cause air pollution): _____

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

Annual Average Not Applicable Maximum _____

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

Liquid waste paint and solvents will be collected and disposed of through Walt Disney World Co.'s hazardous waste handling system.

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

Stack Height: 42 ft. Stack Diameter: 0.5 ft.
 Gas Flow Rate: 249 ACFM DSCFM Gas Exit Temperature: 75 °F.
 Water Vapor Content: Ambient % Velocity: 21.1 FPS

See Attachment C for sketch of exhaust system and fan specifications

SECTION IV: INCINERATOR INFORMATION

Not applicable

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

Description of Waste _____

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

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

Manufacturer: _____

Date Constructed _____ Model No. _____

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

Stack Height: _____ ft. Stack Diameter: _____ Stack Temp. _____

Gas Flow Rate: _____ ACFM _____ DSCFM* Velocity: _____ FPS

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

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

Brief description of operating characteristics of control devices: _____

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

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

SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

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

9. The appropriate application fee in accordance with Rule 17-4.05. The check should be made payable to the Department of Environmental Regulation.
10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY

Not Applicable

- A. Are standards of performance for new stationary sources pursuant to 40 C.F.R. Part 63 applicable to the source?

Yes No

Contaminant	Rate or Concentration

- B. Has EPA declared the best available control technology for this class of sources (If yes, attach copy).

Yes No

Contaminant	Rate or Concentration

- C. What emission levels do you propose as best available control technology?

Contaminant	Rate or Concentration

- D. Describe the existing control and treatment technology (if any).

- | | |
|---------------------------|--------------------------|
| 1. Control Device/System: | 2. Operating Principles: |
| 3. Efficiency:* | 4. Capital Costs: |

*Explain method of determining

5. Useful Life:

6. Operating Costs:

7. Energy:

8. Maintenance Cost:

9. Emissions:

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

10. Stack Parameters

a. Height:

ft.

b. Diameter:

ft.

c. Flow Rate:

ACFM

d. Temperature:

°F.

e. Velocity:

FPS

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

1.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy ²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

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

2.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

¹Explain method of determining efficiency.

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

j. Applicability to manufacturing processes:

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

3.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

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

4.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Costs:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

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

F. Describe the control technology selected:

1. Control Device:

2. Efficiency:¹

3. Capital Cost:

4. Useful Life:

5. Operating Cost:

6. Energy:²

7. Maintenance Cost:

8. Manufacturer:

9. Other locations where employed on similar processes:

a. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

Explain method of determining efficiency.

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

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant

Rate or Concentration

(8) Process Rate:¹

b. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant

Rate or Concentration

(8) Process Rate:¹

10. Reason for selection and description of systems:

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

SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION

Not Applicable

4. Company Monitored Data

1. _____ no. sites _____ TSP _____ () SO₂* _____ Wind spd/dir

Period of Monitoring _____ / _____ / _____ to _____ / _____ / _____
month day year month day year

Other data recorded _____

Attach all data or statistical summaries to this application.

Specify bubbler (B) or continuous (C).

2. Instrumentation, Field and Laboratory

- a. Was instrumentation EPA referenced or its equivalent? Yes No
- b. Was instrumentation calibrated in accordance with Department procedures?
 Yes No Unknown

B. Meteorological Data Used for Air Quality Modeling

1. _____ Year(s) of data from _____ / _____ / _____ to _____ / _____ / _____
month day year month day year
2. Surface data obtained from (location) _____
3. Upper air (mixing height) data obtained from (location) _____
4. Stability wind rose (STAR) data obtained from (location) _____

C. Computer Models Used

1. _____ Modified? If yes, attach description.
2. _____ Modified? If yes, attach description.
3. _____ Modified? If yes, attach description.
4. _____ Modified? If yes, attach description.

Attach copies of all final model runs showing input data, receptor locations, and principle output tables.

D. Applicants Maximum Allowable Emission Data

Pollutant	Emission Rate
TSP	_____ grams/sec
SO ₂	_____ grams/sec

E. Emission Data Used in Modeling

Attach list of emission sources. Emission data required is source name, description of point source (on NEDS point number), UTM coordinates, stack data, allowable emissions, and normal operating time.

F. Attach all other information supportive to the PSD review.

G. Discuss the social and economic impact of the selected technology versus other applicable technologies (i.e., jobs, payroll, production, taxes, energy, etc.). Include assessment of the environmental impact of the sources.

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



WALT DISNEY World Co.

March 13, 1990

Mr. Robert H. Penn
Director, Environmental Affairs
Walt Disney World Co.
P.O. Box 10,000
Lake Buena Vista, FL 32830

Dear Bob:

This is to confirm that you have been authorized by
Walt Disney World Co. to sign applications for air emission
permits on behalf of the Company.

Sincerely,

Philip N. Smith
Secretary

PNS/kot

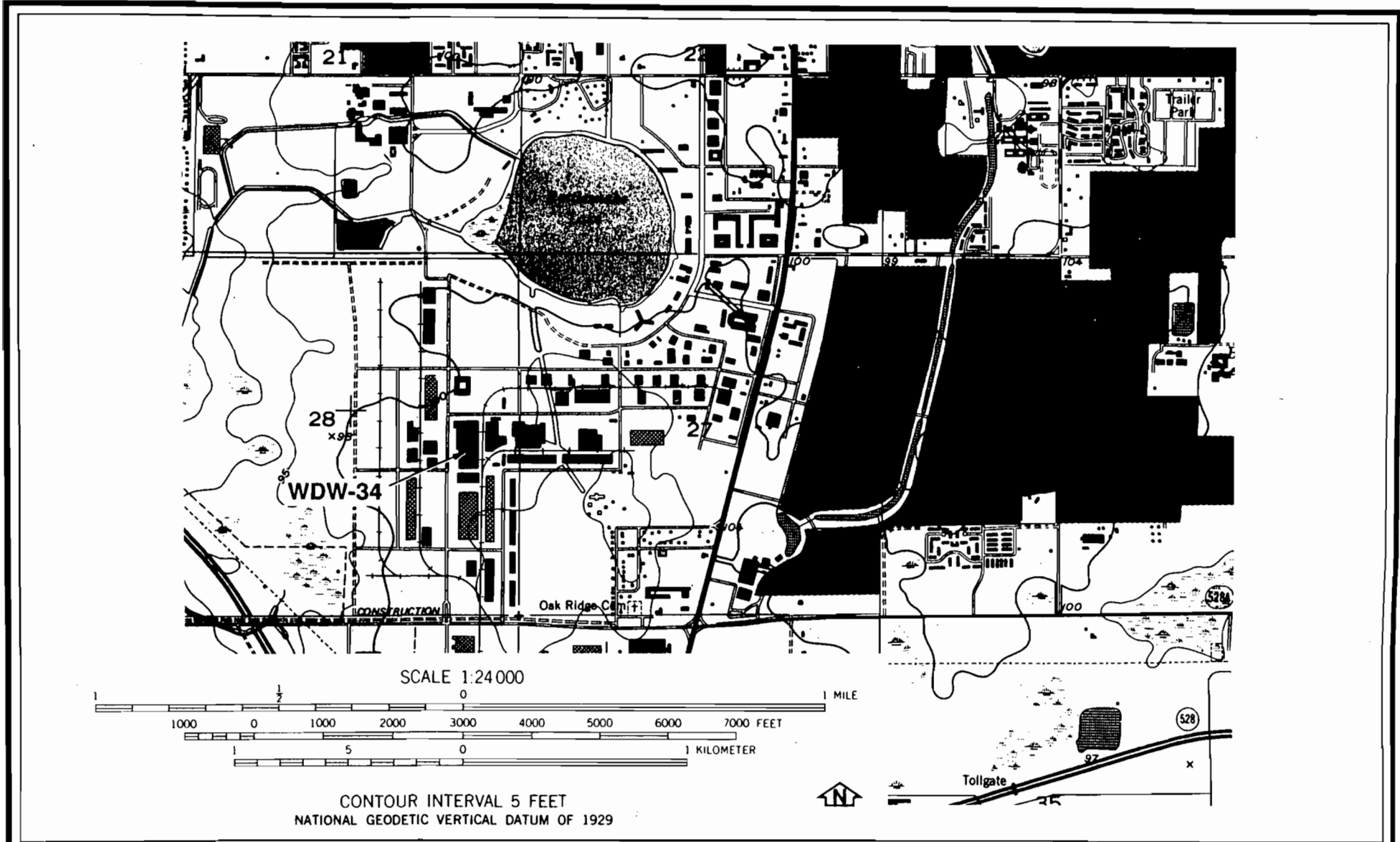


Figure 1
LOCATION OF SOLVENT
EXTRACTION STATION (WDW-34)

SOURCE: USGS, 1980.

ENVIRONMENTAL SCIENCE
& ENGINEERING, INC.

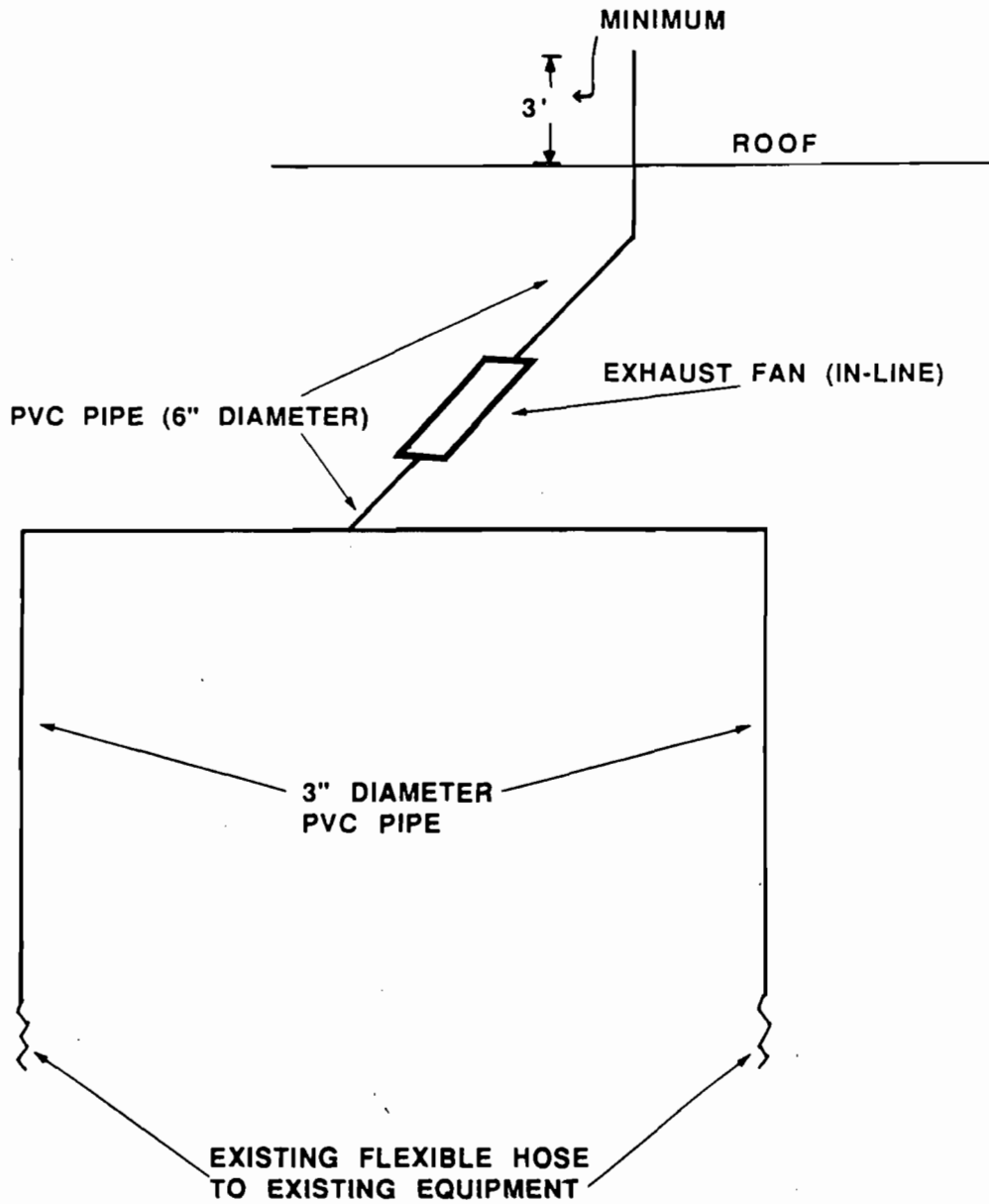


Figure 2
SKETCH (CROSS SECTION) OF
PLANNED "KNOX-OUT" EXHAUST SYSTEM

SOURCE: ESE, 1990.

ENVIRONMENTAL SCIENCE
& ENGINEERING, INC.

ATTACHMENT A

Material Safety Data Sheet for "Knox-Out"

MATERIAL SAFETY DATA SHEET

PREPARED BY

EMERGENCY TELEPHONE

AMERICAN NIAGARA CORP.
2160-C HILLS AVE. N.W
Atlanta, GA 30318

(404)350-2600

DATE: 8-1-88

SECTION I - PRODUCT IDENTIFICATION

PRODUCT TRADE NAME

CHEMICAL FAMILY

KNOX-OUT

CHLORINATED SOLVENT BLEND

SECTION II - PHYSICAL DATA ON PRODUCT

BOILING POINT

VAPOR PRESSURE

SPECIFIC GRAVITY

152°F

230

1.5

% VOLATILE

SOLUBILITY IN WATER

EVAPORATION RATE

100

Negl.

> Butyl Acetate

APPEARANCE AND ODOR

Clear, colorless liquid with chlorinated solvent odor.

SECTION III - FIRE AND EXPLOSION HAZARD

FLASH POINT

EXTINGUISHING MEDIA

NONE

NA

SPECIAL FIRE FIGHTING PROCEDURES

Cool containers with water mist. When exposed to open flame, this product may produce toxic substances. See SECTION V.

SECTION IV - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

Not determined for this product. See SECTION IX below.

PRIMARY ROUTE OF EXPOSURE

Skin and eye contact and inhalation of vapors.

EFFECTS OF OVEREXPOSURE

(1) INHALATION

Headache, dizziness and/or nausea may result from prolonged exposure over 800 ppm. Exposure to very high concentrations of vapors(over 8,000 ppm) may result in unconsciousness or possibly DEATH.

(2) SKIN CONTACT AND ABSORPTION

Defatting of skin resulting in industrial dermatitis.

(3) INGESTION

If swallowed, call a physician. DO NOT INDUCE VOMITING unless instructed to do so by a physician. See NOTE in EMERGENCY PROCEDURE below.

(4) EYE CONTACT

Eye contact may result in redness and irritation.

(5) TARGET ORGAN EFFECTS

Nephrotoxin - may cause kidney damage with prolonged exposure.

EMERGENCY AND FIRST AID PROCEDURES

If overcome by inhalation of concentrated vapors, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. For eye contact, flush with water for 15 minutes. If irritation persists, call a physician. For skin contact, wash with soap and water. Remove contaminated clothing and allow to dry before reuse.

* NOTE *The decision of whether to induce vomiting or not should be made by a physician due to the possibility that the material may be aspirated and cause systemic effects. If lavage is performed, endotracheal and/or esophageal control is suggested.

SECTION V - REACTIVITY DATA

STABILITY

This product is stable. Hazardous polymerization will not occur. If exposed to open flame or very hot surfaces, harmful decomposition products such as hydrogen chloride and phosgene may result. This product should not be allowed to come in contact with aluminum or water for extended periods.

SECTION VI - SPILL OR LEAK PROCEDURES

Stop spill at source. Evacuate area or provide sufficient ventilation to control TLV. For small spills allow to evaporate with adequate ventilation. For large spills, pump liquid into salvage tank, absorb on sand, earth or other suitable absorbent. Disposal must be in accordance with local, state and federal regulations

SECTION VII - SPECIAL PROTECTION INFORMATION

Special personal protection equipment is not necessary if local exhaust is sufficient to keep vapor concentration below TLV.

SECTION VIII - SPECIAL PRECAUTIONS

Store in cool, dry area away from sources of heat. If TLV is exceeded, use IOSH/MESA approved breathing apparatus.

SECTION IX - HAZARDOUS COMPONENTS

CHEMICAL NAME, CAS# (COMMON NAME)	TLV PPM
1,1,2,2-tetrachloroethylene, 127-18-4 (Perchloroethylene)	50
Dichloromethane, 75-09-2 (Methylenechloride)	100
Suspect of Carcinogenic Potential for Man.	2-17-87

*** * * DISCLAIMER * * ***

The information contained in this MATERIAL SAFETY DATA SHEET is provided pursuant to 29CFR 1910.1200 to convey information concerning the hazardous nature of the named product.

The information supplied was compiled from the most reliable sources available at the time of preparation and in light of the most reasonable foreseeable exposure situations expected from the intended use of this product. The material(s) may present greater or lesser hazard exposure under other circumstances that are beyond the control of the manufacturer. Therefore it is imperative that all directions and warnings on the product label be read and closely followed.

ATTACHMENT B

Emission Calculations

Given Parameters: Usage = 0.76 gal/16 hr/day
Density = 12.53 lb/gal

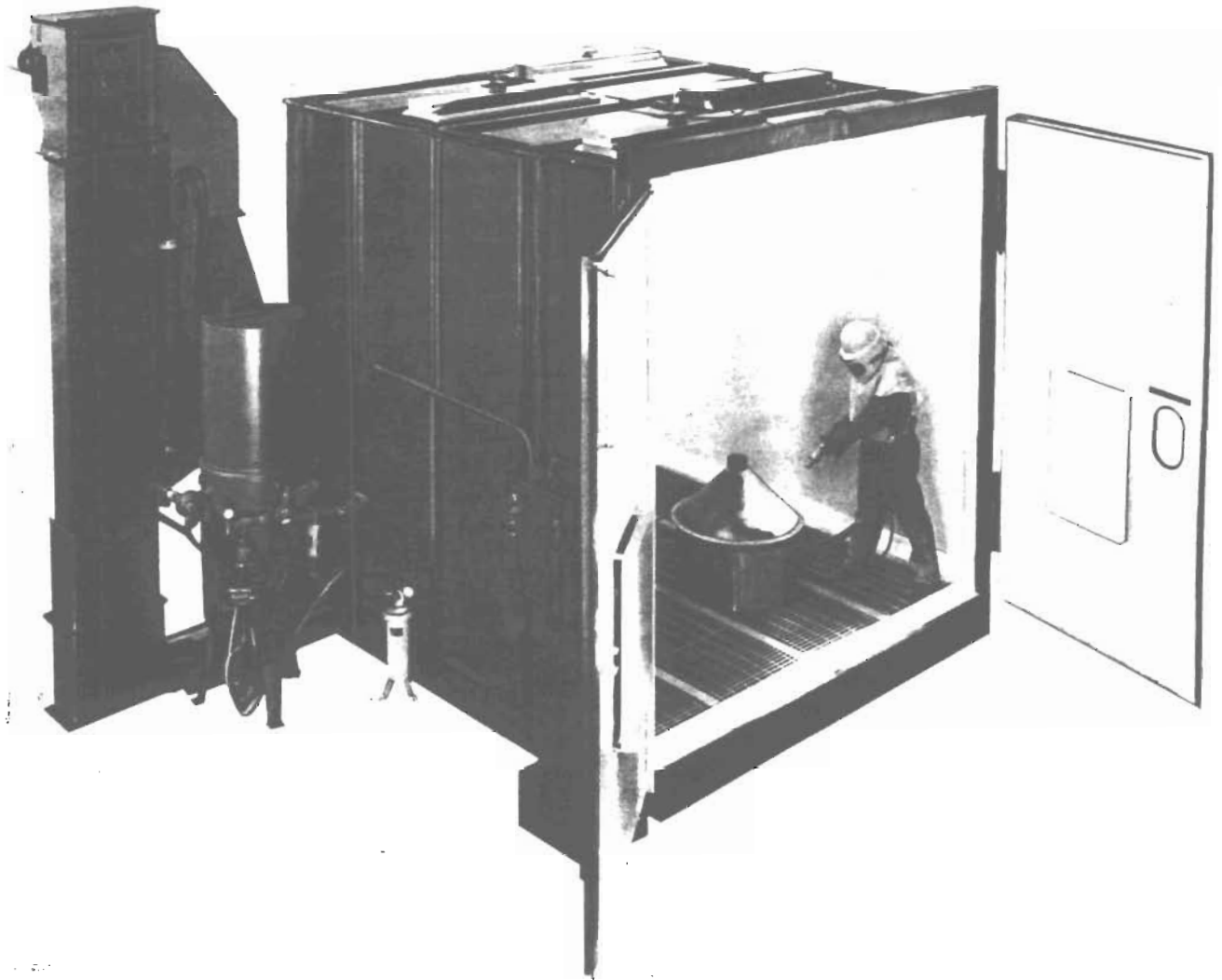
Emission = 0.76 gal/16 hr/day x 12.53 lb/gal x 365 days/year
= 1.74 tons per year, based on a 16 hour operating day
= 0.595 lb/hr

ATTACHMENT C

Equipment Specifications

**Modular Design Adds Up
to 33 Standard Models**

Blast-Finishing Rooms



EMPIRE

Media Separator/Air Wash Cleaner removes large and heavy debris, and carries away fines and dust efficiently.

Protected Lighting focuses illumination on work surfaces, prevents over-blasting.

Hood with Air Conditioner provides a comfortable environment for operator.

Patented Saf-Stop II™ Remote Control meets OSHA standards for ease of operation and comfort.

Ventilation System removes dust-laden air with a 70-fpm cross draft.

Fan and Motor are sized precisely for efficient cross-draft ventilation and dust collection.

Storage Hopper gravity feeds media to blasting tank for automatic refilling.

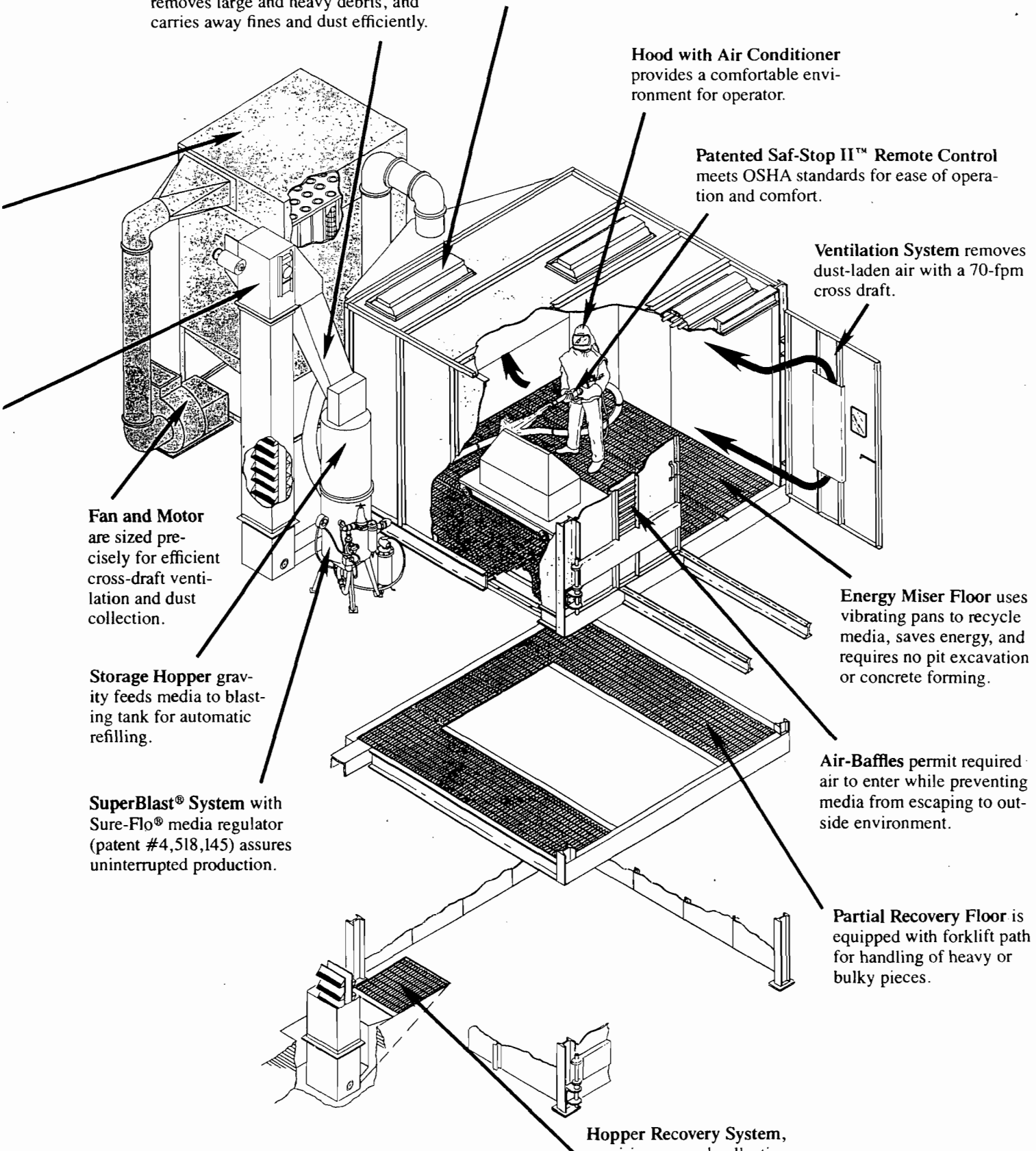
SuperBlast® System with Sure-Flo® media regulator (patent #4,518,145) assures uninterrupted production.

Energy Miser Floor uses vibrating pans to recycle media, saves energy, and requires no pit excavation or concrete forming.

Air-Baffles permit required air to enter while preventing media from escaping to outside environment.

Partial Recovery Floor is equipped with forklift path for handling of heavy or bulky pieces.

Hopper Recovery System, requiring manual collection of media, can be specified to reduce room costs.

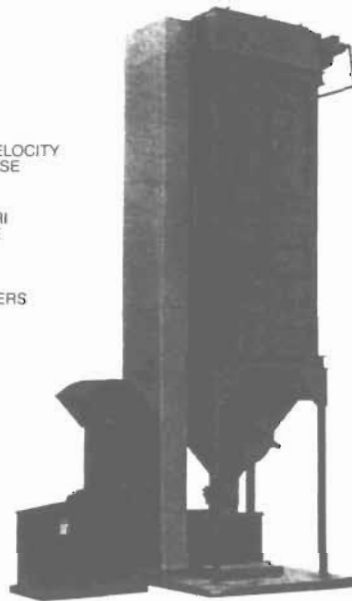
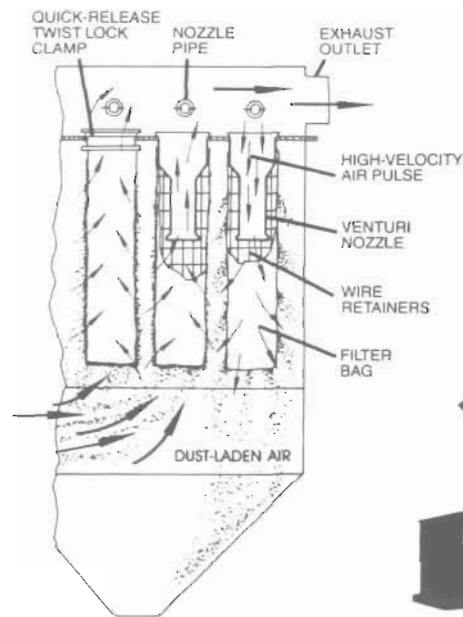


Mix-Match Components to Meet Your Needs

The heart of any blast-finishing room is its floor, which recovers abrasives and reduces media costs. With an Empire room, you can select from three types of floors: a full recovery system, a partial recovery system or a hopper recovery system. Which one is right for you depends on your budget parameters and production needs.

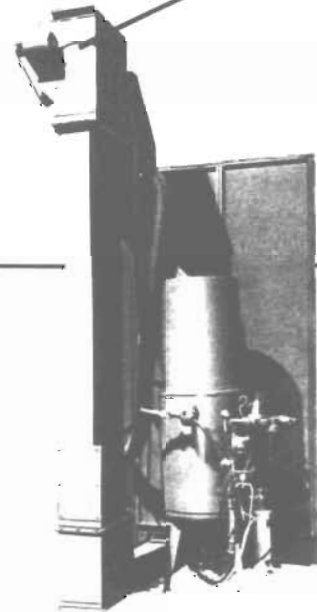
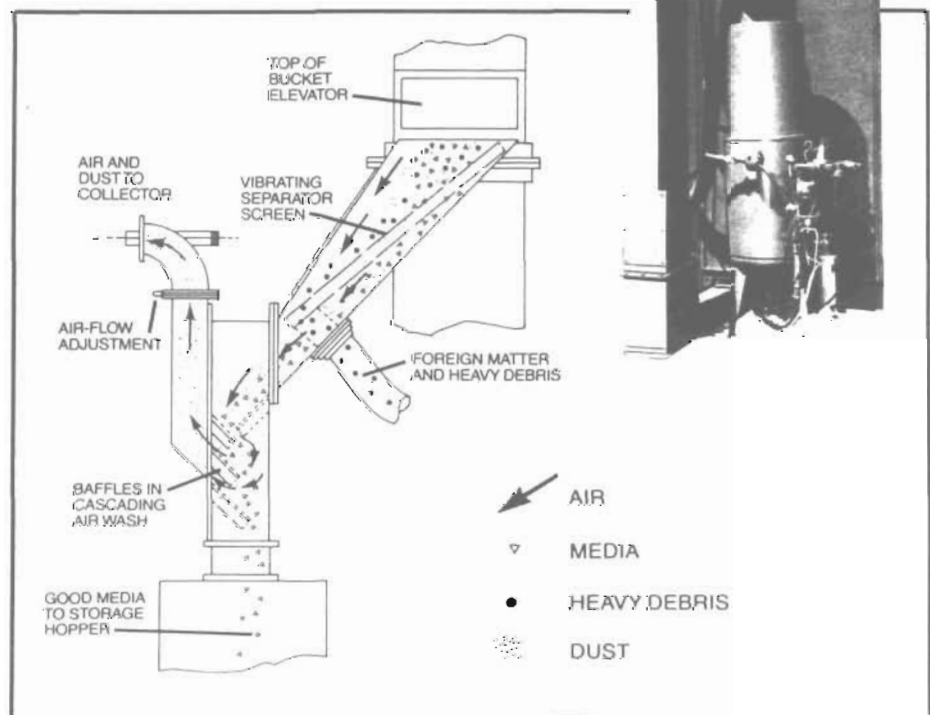
Building up from the floor, you can select from a full range of Empire room components to meet your specific application requirements. Where initial costs are a primary consideration, you may choose to build your own enclosure. In cases where production rates and operating efficiency take precedence, there are a wide variety of proven Empire components to assist you. Each is designed to speed blast-finishing and reduce operating costs.

With Empire's modular design, you can specify just what you need in a blast room at a price to suit your budget.



Dust Collector, which removes 99 percent of all dust down to one micron, permits in-plant venting of air. Automatic pulse-jet action dislodges dust from fabrics inside collection system. If production demands increase, additional modules can be installed to provide required filtration.

High-Capacity Elevator, employing rugged, cast-iron buckets located on one-foot centers, lifts media to a media separator and air-wash cleaner.



Standard Blast Rooms

Designation Code	Width	Length	Height	Designation Code	Width	Length	Height	Designation Code	Width	Length	Height
810-8 810-10 810-12	7'6"	10'4"	8' 10' 12'	1015-8 1015-10 1015-12	10'	15'4"	8' 10' 12'	1320-8 1320-10 1320-12	12'6"	20'4"	8' 10' 12'
815-8 815-10 815-12	7'6"	15'4"	8' 10' 12'	1020-8 1020-10 1020-12	10'	20'4"	8' 10' 12'	1515-8 1515-10 1515-12	15'	15'4"	8' 10' 12'
820-8 820-10 820-12	7'6"	20'4"	8' 10' 12'	1310-8 1310-10 1310-12	12'6"	10'4"	8' 10' 12'	1520-8 1520-10 1520-12	15'	20'4"	8' 10' 12'
1010-8 1010-10 1010-12	10'	10'4"	8' 10' 12'	1315-8 1315-10 1315-12	12'6"	15'4"	8' 12' 12'	CERTIFIED INSTALLATION AVAILABLE ON ORDER			

NOTE: All dimensions listed are interior room clearances. The door opening is the full width of each blast room. Standard room lengths can be expanded by 5-foot increments.

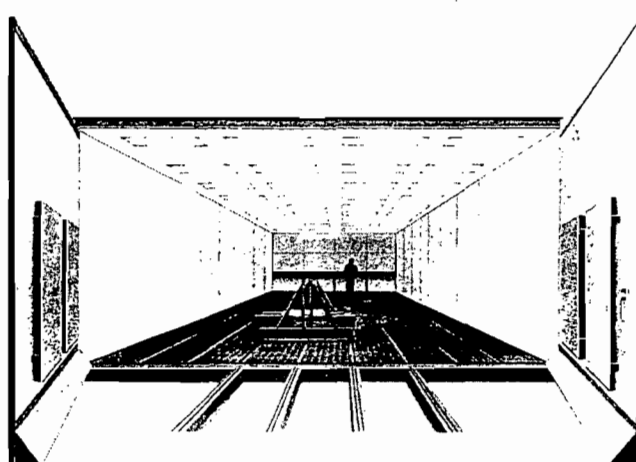
POWER CONNECTIONS: Standard electrical connections to the control panel under the dust collector are 220/440 VAC, 60 Hertz, 3 Phase. Empire recommends a 2-inch air line with 100 psig minimum pressure for pneumatic supply.

DUST REMOVAL: Empire's energy efficient, cross-draft ventilation and cascading air-wash media cleaner are supplied with standard blast rooms.

Custom-Built Rooms

In addition to 33 standard blast room models, Empire offers custom-engineered rooms designed to meet your specific dimensional and production requirements.

With more than 35 years of experience producing abrasive blasting equipment, we have the knowledge and manufacturing capabilities to build fully integrated systems to your exact specifications. We also assume single-source responsibility for each blast room we produce from the planning stages right through to final installation. And once your Empire blast room is operational, you can count on us to help you maintain the system at peak operating efficiency.



Accessories

We offer a wide range of customized accessories for our blast rooms to increase operator productivity. These options include:

- Overhead monorail
- Dolly with turntable
- One-ton and five-ton work carts
- Double doors at both ends
- Man doors
- Ramps and other work-access systems
- Hanging rubber curtains
- Dual media systems
- Additional equipment for two or more operators
- Outside operators' work stations
- Operators' comfort and safety equipment
- Additional lighting
- Additional ventilation
- OSHA noise package

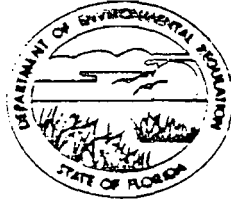
EMPIRE

ABRASIVE EQUIPMENT CORPORATION
2101 WEST CABOT BOULEVARD, LANGHORNE PA. 19047
● (215) 752-8800 TELEX 831-378

#200 pd.
4-26-90
Receipt # 151117

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
1600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



AC 48-179647

BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Blast Stripping Booth New¹ Existing¹
APPLICATION TYPE: Construction Operation Modification
COMPANY NAME: Walt Disney World Co. COUNTY: Orange

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

SOURCE LOCATION: Street 736 Central Florida Parkway City Orlando

See Figure 1. UTM: East 460.595 North 3141.571
Latitude 28 ° 23 ' 57 " N Longitude 81 ° 24 ' 01 " W

APPLICANT NAME AND TITLE: Walt Disney World Co.

APPLICANT ADDRESS: P.O. Box 10,000, Lake Buena 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 control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I also understand that a permit, if granted by the department, will be non-transferable and I will promptly notify the department upon sale or legal transfer of the permitted establishment.

*Attach letter of authorization

Signed: Robert H. Penn
Robert H. Penn, Director, Environmental Affairs
Name and Title (Please Type)
Date: 4-24-90 Telephone No. (407)824-4281

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

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

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

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



Signed Thomas W. Davis

Thomas W. Davis
Name (Please Type)

Environmental Science and Engineering
Company Name (Please Type)

P. O. Box 1703, Gainesville, Florida 32602
Mailing Address (Please Type)

Florida Registration No. 36777 Date: 4/20/90 Telephone No. (904)332-3318

SECTION II: GENERAL PROJECT INFORMATION

- A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

The plastic blast media booth will be utilized to strip paint from motel furniture.
"Polyplus", a solid plastic media will be the blasting agent. A baghouse will be
used to control particulate emissions. A Material Safety Data Sheet (MSDS) for
"Polyplus" is included as Attachment A.

- B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction 1/1/90 Completion of Construction 1/31/90

- C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)

Approximately \$5,000

- D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

None

E. Requested permitted equipment operating time: hrs/day 8; days/wk 7; wks/yr 52; if power plant, hrs/yr _____; if seasonal, describe: _____

F. If this is a new source or major modification, answer the following questions. (Yes or No)

1. Is this source in a non-attainment area for a particular pollutant? No
a. If yes, has "offset" been applied? _____
b. If yes, has "Lowest Achievable Emission Rate" been applied? _____
c. If yes, list non-attainment pollutants. _____

2. Does best available control technology (BACT) apply to this source? No
If yes, see Section VI.

3. Does the State "Prevention of Significant Deterioration" (PSD) requirement apply to this source? If yes, see Sections VI and VII. No

4. Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source? No

5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source? No

H. Do "Reasonably Available Control Technology" (RACT) requirements apply to this source? No

a. If yes, for what pollutants? _____

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

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

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

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

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
Polyplus Blast	Particulate	100	1.56 lb/hr new	
Media (MSDS included in Attachment A.)	Matter		blast media added to system	

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

1. Total Process Input Rate (lbs/hr): Not Applicable

2. Product Weight (lbs/hr): Not Applicable

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

Name of Contaminant	Emission ¹		Allowed ² Emission Rate per Rule 17-2	Allowable ³ Emission lbs/hr	Potential ⁴ Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Particulate	0.025	0.04	N/A	N/A	73.58	3.67	
	See Attachment B for Calculations						

¹See Section V, Item 2.

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

³Calculated from operating rate and applicable standard.

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

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

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Empire Model 810-8	Particulate	99%		Manufacturer's
Blast Room with	Matter			Specification
Baghouse (see				
Attachment C)				

E. Fuels Not Applicable

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

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

Fuel Analysis:

Percent Sulfur: _____ Percent Ash: _____

Density: _____ lbs/gal Typical Percent Nitrogen: _____

Heat Capacity: _____ BTU/lb _____ BTU/gal

Other Fuel Contaminants (which may cause air pollution): _____

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

Annual Average Not Applicable Maximum _____

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

Waste will be collected and disposed of through the Walt Disney World Co.'s solid waste and hazardous waste collection systems, as appropriate.

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

Stack Height: 30 ft. Stack Diameter: 3 ft.
 Gas Flow Rate: 21,000 ACFM DSCFM Gas Exit Temperature: Ambient °F.
 Water Vapor Content: Ambient % Velocity: 49.5 FPS

SECTION IV: INCINERATOR INFORMATION

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

Description of Waste _____
 Total Weight Incinerated (lbs/hr) _____ Design Capacity (lbs/hr) _____
 Approximate Number of Hours of Operation per day _____ day/wk _____ wks/yr. _____
 Manufacturer _____
 Date Constructed _____ Model No. _____

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

Stack Height: _____ ft. Stack Diameter: _____ Stack Temp. _____
 Gas Flow Rate: _____ ACFM _____ DSCFM* Velocity: _____ FPS

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

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

Brief description of operating characteristics of control devices: _____

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

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

SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

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

9. The appropriate application fee in accordance with Rule 17-4.05. The check should be made payable to the Department of Environmental Regulation.
10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

Not Applicable. SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY

A. Are standards of performance for new stationary sources pursuant to 40 C.F.R. Part 60 applicable to the source?

Yes No

Contaminant	Rate or Concentration

B. Has EPA declared the best available control technology for this class of sources (If yes, attach copy).

Yes No

Contaminant	Rate or Concentration

C. What emission levels do you propose as best available control technology?

Contaminant	Rate or Concentration

D. Describe the existing control and treatment technology (if any).

- | | |
|---------------------------|--------------------------|
| 1. Control Device/System: | 2. Operating Principles: |
| 3. Efficiency:* | 4. Capital Costs: |

*Explain method of determining

5. Useful Life:

6. Operating Costs:

7. Energy:

8. Maintenance Cost:

9. Emissions:

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

10. Stack Parameters

a. Height:

ft.

b. Diameter:

ft.

c. Flow Rate:

ACFM

d. Temperature:

°F.

e. Velocity:

FPS

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

1.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy ²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

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

2.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

¹ Explain method of determining efficiency.

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

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

3.

- a. Control Device:
- b. Operating Principles:
- c. Efficiency:¹
- d. Capital Cost:
- e. Useful Life:
- f. Operating Cost:
- g. Energy:²
- h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

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

4.

- a. Control Device:
- b. Operating Principles:
- c. Efficiency:¹
- d. Capital Costs:
- e. Useful Life:
- f. Operating Cost:
- g. Energy:²
- h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

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

F. Describe the control technology selected:

- 1. Control Device:
- 2. Efficiency:¹
- 3. Capital Cost:
- 4. Useful Life:
- 5. Operating Cost:
- 6. Energy:²
- 7. Maintenance Cost:
- 8. Manufacturer:

9. Other locations where employed on similar processes:

- a. (1) Company:
- (2) Mailing Address:
- (3) City:
- (4) State:

Explain method of determining efficiency.
 Energy to be reported in units of electrical power - KWH design rate.

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant

Rate or Concentration

(8) Process Rate:¹

b. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant

Rate or Concentration

(8) Process Rate:¹

10. Reason for selection and description of systems:

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

Not Applicable SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION

A. Company Monitored Data

1. _____ no. sites _____ TSP _____ () SO₂ _____ Wind spd/dir

Period of Monitoring _____ / _____ / _____ to _____ / _____ / _____
month day year month day year

Other data recorded _____

Attach all data or statistical summaries to this application.

Specify bubbler (B) or continuous (C).



WALT DISNEY World Co.

March 13, 1990

Mr. Robert H. Penn
Director, Environmental Affairs
Walt Disney World Co.
P.O. Box 10,000
Lake Buena Vista, FL 32830

Dear Bob:

This is to confirm that you have been authorized by
Walt Disney World Co. to sign applications for air emission
permits on behalf of the Company.

Sincerely,

Philip N. Smith
Secretary

PNS/kot

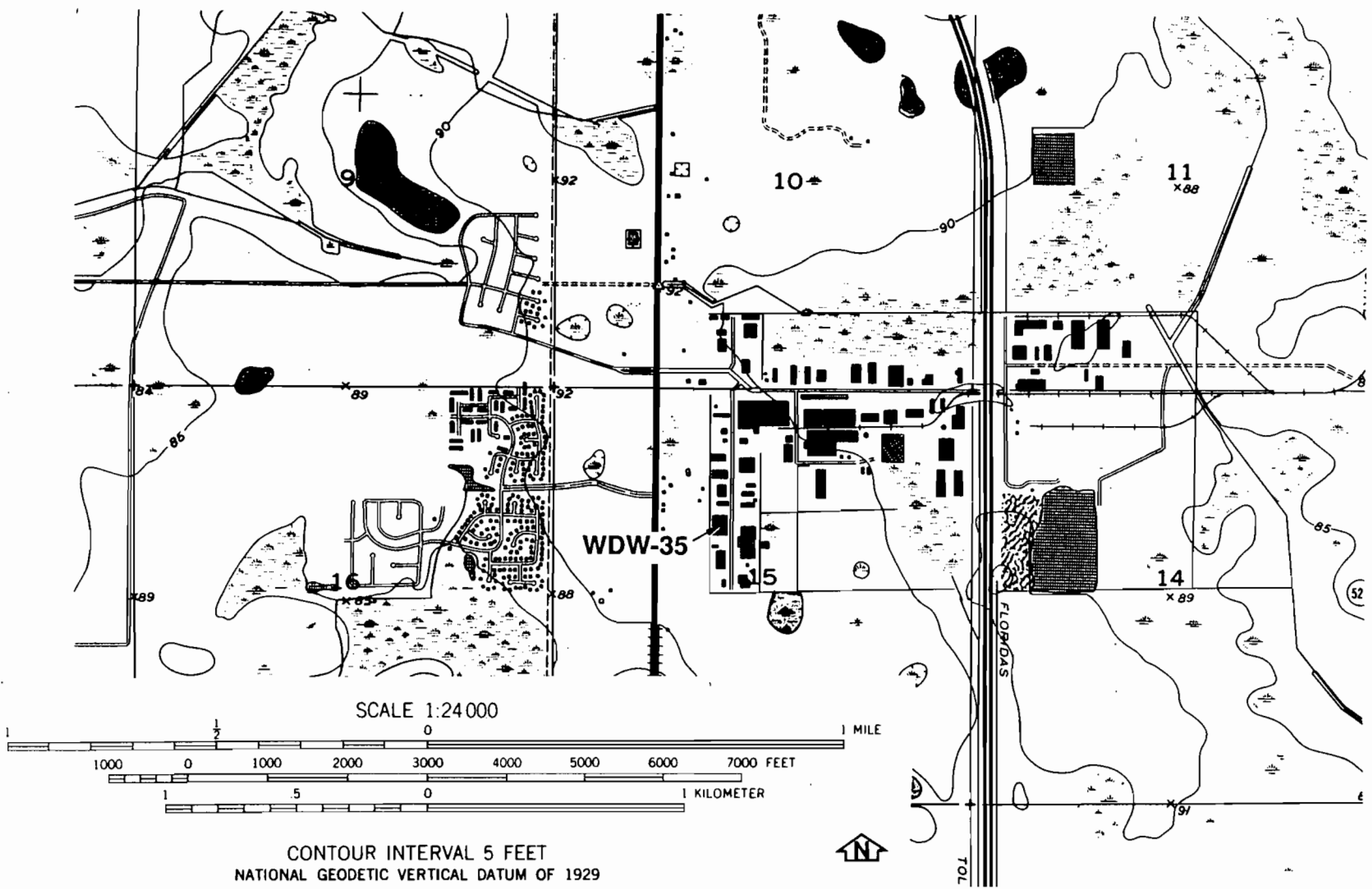


Figure 1
LOCATION OF BLAST
STRIPPING BOOTH (WDW-35)

SOURCE: USGS, 1980.

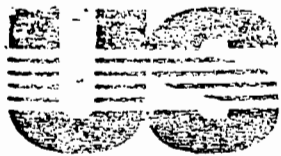
ENVIRONMENTAL SCIENCE
& ENGINEERING, INC.

ATTACHMENT A

Material Safety Data Sheet for PolyPlus Blast Cleaning Media

Refinishing

89



BLAST CLEANING

Blast Storage Room

VICTOR METAL FINISHING CO., INC.

Tumbling & Blasting Equip. & Supplies

2320 S. W. 56 Terrace

Hollywood, Fla. 33023

Tel. (305) 981-1969

Material Safety

SECTION I

MANUFACTURER'S NAME U.S. Technology Corporation		EMERGENCY TELEPHONE NO. 203-928-2707
ADDRESS (number, street, city, state and zip code) 328 Kennedy Drive, Putnam, CT 06260		
CHEMICAL TYPE Amino Thermoset Resin	PRODUCT POLYPLUS Blast Cleaning Media	

SECTION II — HAZARDOUS INGREDIENTS

	% Approx.	TLV (Units)			
No TLV has been established for any component of this product.					

SECTION III — PHYSICAL DATA

BOILING POINT (*F.) (APPROX.)	N.A.	SPECIFIC GRAVITY (APPROX.)	1.5
APPEARANCE	Granular	PERCENT VOLATILE BY VOLUME (%) (APPROX.)	0
VAPOR DENSITY COMPARED TO AIR	N.A.	EVAPORATION RATE COMPARED TO ETHER	N.A.
ODOR	None	SOLUBILITY IN WATER	None

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

IGNITION TEMPERATURE *C 530	FLAMMABLE LIMITS N.A. (APPROX.)	LeI N.A.	UeI N.A.
EXTINGUISHING MEDIA CO ₂ , dry chemicals or water fog			
SPECIAL FIRE FIGHTING PROCEDURES Do not use high pressure water stream. Fog nozzles are preferable. Water may be used to cool closed containers.			
USUAL FIRE AND EXPLOSION HAZARDS Dust could form explosive mixture with air. Maintain normal good house keeping for control of dust.			

N.A. — Not Applicable

SECTION V — HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

See Section II

EFFECTS OF OVEREXPOSURE

May cause minor eye and skin irritation. Excessive dust inhalation may be harmful.

EMERGENCY AND FIRST AID PROCEDURES

In case of irritation, flush eyes with plenty of water for 15 minutes. Call a physician. Flush skin with water. Inhalation:

Inhalation: Remove to fresh air and call a physician if necessary.

SECTION VI — REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	

INCOMPATIBILITY (materials to avoid)

Oxidizing Agents

HAZARDOUS DECOMPOSITION PRODUCTS

Smoke, Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove open flame, sparks, hot surfaces and oxidizing agents. Clean up.

WASTE DISPOSAL METHOD

This material exhibits the characteristic of E. P. Toxicity (D008) as set forth in 40CFR Part 261.24 of Federal Register.

The disposal of waste materials may therefore be subject to both Federal and State Regulations.

SECTION VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type)

Use with adequate ventilation. Where required, use NIOSH/MSHA approved respiratory protection in compliance with current OSHA regulations (i.e. 1910.134 et al)

VENTILATION	LOCAL EXHAUST Where necessary to maintain exposure levels to OSHA permissible limit.	SPECIAL EXPLOSION PROOF May be necessary if airtight or airved.
	MECHANICAL (general) Acceptable	
PROTECTIVE GLOVES	Normal work gloves advisable	EYE PROTECTION Safety Goggles
OTHER PROTECTIVE EQUIPMENT	Respirator hood if necessary.	

SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in closed, properly labeled container in cool, ventilated area. Keep away from heat, sparks, open flames and oxidizing agents. Do not transfer to unmarked container.

OTHER PRECAUTIONS

Determine compliance with OSHA 1910.1025.

N.A. — Not Applicable

IMPORTANT

The information contained herein is based on technical data which is believed to be reliable, and is furnished without warranty of any kind. The contained data is intended to supplement other information gathered by the employer, who must make an independent determination of suitability and completeness of all such information gathered in order to assure proper use and the safety and health of employees.

ATTACHMENT B

Particulate Matter Emission Calculation

Baghouse Efficiency = 99%

Quantity of Material Captured by Baghouse = 20 lbs/8 hr shift

Emission Rate = $20 \text{ lb/8 hr} \times (1.00 - 0.99) / 0.99$
= 0.025 lb/hr

ATTACHMENT C

Equipment Description

\$300pd.

4-26-90

Receipt #151119

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2500 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



AC 48-179648

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Paint Mixing Ventilation New Existing

APPLICATION TYPE: Construction Operation Modification

COMPANY NAME: Walt Disney World Co. COUNTY: Orange

Identify the specific emission point source(s) addressed in this application (i.e. Line
Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Central Shops Paint Mixing
Stations

SOURCE LOCATION: Street Facilities Way City Baylake

UTM: East 443.512 North 3144.219

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

APPLICANT NAME AND TITLE: Walt Disney World Co.

APPLICANT ADDRESS: P.O. Box 10,000, Lake Buena 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 control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I also understand that a permit, if granted by the department, will be non-transferable and I will promptly notify the department upon sale or legal transfer of the permitted establishment.

*Attach letter of authorization

Signed: Robert H. Penn

Robert H. Penn, Director, Environmental Affairs
Name and Title (Please Type)

Date: 4-24-90 Telephone No. (407)824-4281

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

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

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

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



Signed Thomas W. Davis

Thomas W. Davis

Name (Please Type)

Environmental Science and Engineering

Company Name (Please Type)

P.O. Box 1703, Gainesville, Florida 32602

Mailing Address (Please Type)

Florida Registration No. 36777 Date: 4/20/90 Telephone No. (904)332-3318

SECTION II: GENERAL PROJECT INFORMATION

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

All Central Shops paint mixing is conducted in one of seven Fillon-Pinchon model 23-39-00 mixing stations. Volatile organic substances (VOS) fumes released during mixing are vented to the atmosphere. Thirty minutes are required to tint and mix one unit of paint.

B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction October 1982 Completion of Construction February 1983

C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)

None

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

None

E. Requested permitted equipment operating time: hrs/day 8 ; days/wk 6 ; wks/yr 52 ;
if power plant, hrs/yr _____; if seasonal, describe: _____

F. If this is a new source or major modification, answer the following questions.
(Yes or No)

1. Is this source in a non-attainment area for a particular pollutant? No
a. If yes, has "offset" been applied? _____
b. If yes, has "Lowest Achievable Emission Rate" been applied? _____
c. If yes, list non-attainment pollutants. _____

2. Does best available control technology (BACT) apply to this source?
If yes, see Section VI. No

3. Does the State "Prevention of Significant Deterioration" (PSD)
requirement apply to this source? If yes, see Sections VI and VII. No

4. Do "Standards of Performance for New Stationary Sources" (NSPS)
apply to this source? No

5. Do "National Emission Standards for Hazardous Air Pollutants"
(NESHAP) apply to this source? No

H. Do "Reasonably Available Control Technology" (RACT) requirements apply
to this source? No

a. If yes, for what pollutants? _____

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

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

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

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

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
Paint, All types	VOC	70*	1.72 lb/hr**	
		*Typical	**Per booth, based on 2496 hours/year	

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

1. Total Process Input Rate (lbs/hr): Not Applicable

2. Product Weight (lbs/hr): Not Applicable

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

Name of Contaminant	Emission ¹		Allowed ² Emission Rate per Rule 17-2	Allowable ³ Emission lbs/hr	Potential ⁴ Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
VOC	0.92	1.15	N/A	N/A	23.03	1.15	

¹See Section V, item 2. See attachment A for Calculations

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

³Calculated from operating rate and applicable standard.

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

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

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
None				

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
Not Applicable			

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

Fuel Analysis:

Percent Sulfur: _____ Percent Ash: _____
 Density: _____ lbs/gal Typical Percent Nitrogen: _____
 Heat Capacity: _____ BTU/lb _____ BTU/gal
 Other Fuel Contaminants (which may cause air pollution): _____

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

Annual Average Not Applicable Maximum _____

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

No liquid or solid waste is generated.

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

Stack Height: See Attachment B ft. Stack Diameter: See Attachment B ft.

Gas Flow Rate: See Att. B ACFM _____ DSCFM Gas Exit Temperature: Ambient °F.

Water Vapor Content: Ambient % Velocity: _____ FPS

SECTION IV: INCINERATOR INFORMATION

Not Applicable

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

Description of Waste _____

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

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

Manufacturer _____

Date Constructed _____ Model No. _____

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

Stack Height: _____ ft. Stack Diameter: _____ Stack Temp. _____

Gas Flow Rate: _____ ACFM _____ DSCFM* Velocity: _____ FPS

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

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

Brief description of operating characteristics of control devices: _____

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

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

SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

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

9. The appropriate application fee in accordance with Rule 17-4.05. The check should be made payable to the Department of Environmental Regulation.
10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

Not Applicable **SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY**

A. Are standards of performance for new stationary sources pursuant to 40 C.F.R. Part 60 applicable to the source?

Yes No

Contaminant	Rate or Concentration

B. Has EPA declared the best available control technology for this class of sources (if yes, attach copy).

Yes No

Contaminant	Rate or Concentration

C. What emission levels do you propose as best available control technology?

Contaminant	Rate or Concentration

D. Describe the existing control and treatment technology (if any).

- | | |
|---------------------------|--------------------------|
| 1. Control Device/System: | 2. Operating Principles: |
| 3. Efficiency:* | 4. Capital Costs: |

*Explain method of determining

5. Useful Life:

6. Operating Costs:

7. Energy:

8. Maintenance Cost:

9. Emissions:

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

10. Stack Parameters

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

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

1.

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

2.

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

¹Explain method of determining efficiency.

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

j. Applicability to manufacturing processes:

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

3.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

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

4.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Costs:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

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

F. Describe the control technology selected:

1. Control Device:

2. Efficiency:¹

3. Capital Cost:

4. Useful Life:

5. Operating Cost:

6. Energy:²

7. Maintenance Cost:

8. Manufacturer:

9. Other locations where employed on similar processes:

a. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

Explain method of determining efficiency.

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

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant

Rate or Concentration

(8) Process Rate:¹

5. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant

Rate or Concentration

(8) Process Rate:¹

10. Reason for selection and description of systems:

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

Not Applicable SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION

A. Company Monitored Data

1. _____ no. sites _____ TSP _____ (.) SO₂ _____ Wind spd/dir

Period of Monitoring _____ / _____ / _____ to _____ / _____ / _____
month day year month day year

Other data recorded _____

Attach all data or statistical summaries to this application.

Specify bubbler (B) or continuous (C).



WALT DISNEY World Co.

March 13, 1990

Mr. Robert H. Penn
Director, Environmental Affairs
Walt Disney World Co.
P.O. Box 10,000
Lake Buena Vista, FL 32830

Dear Bob:

This is to confirm that you have been authorized by
Walt Disney World Co. to sign applications for air emission
permits on behalf of the Company.

Sincerely,

Philip N. Smith
Secretary

PNS/kot

↑
N
NOT TO SCALE

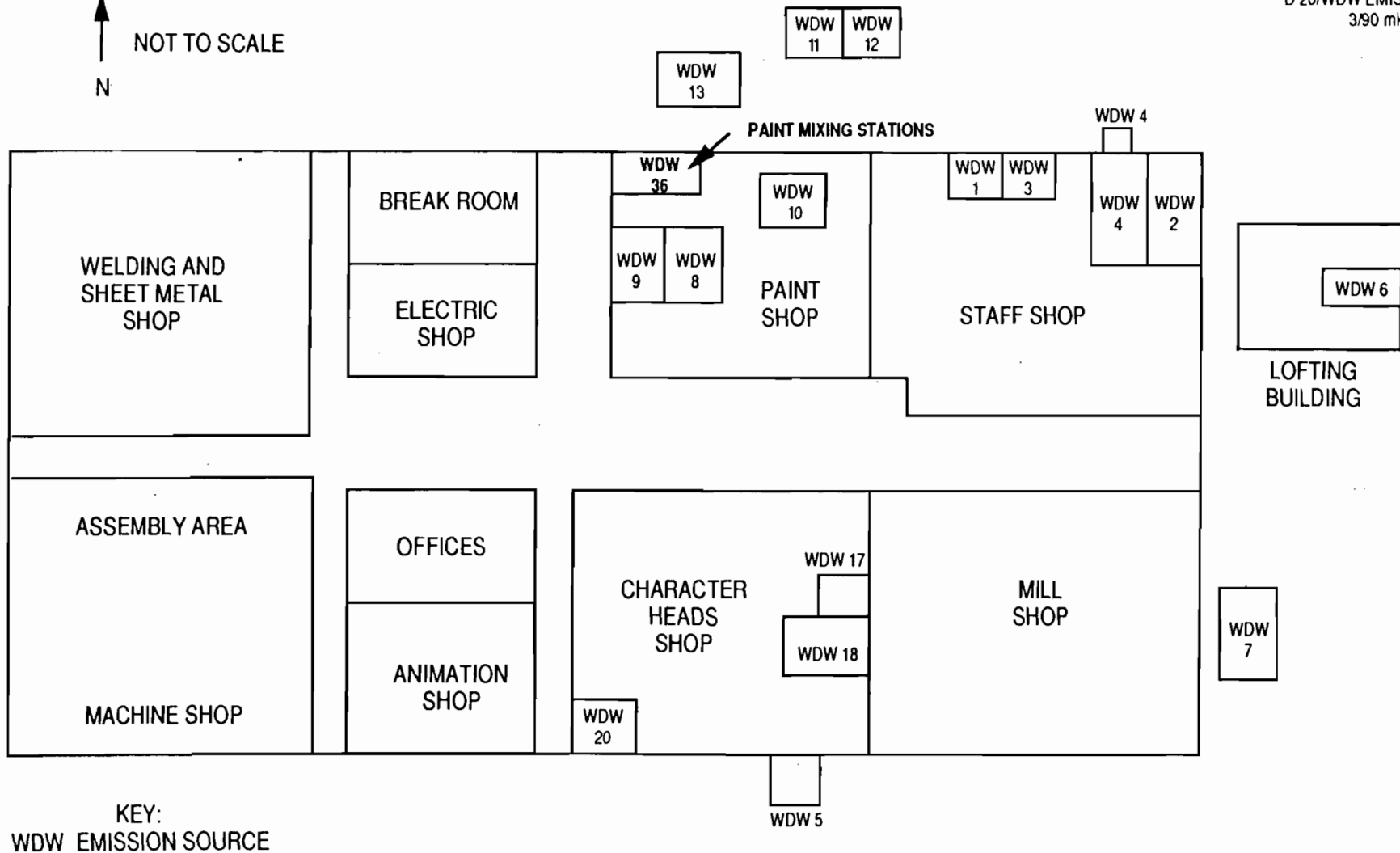


Figure 1
NORTH SERVICE AREA EMISSION SOURCE LOCATIONS

SOURCES: WDW, 1990; ESE, 1990.

**ENVIRONMENTAL SCIENCE
& ENGINEERING, INC.**

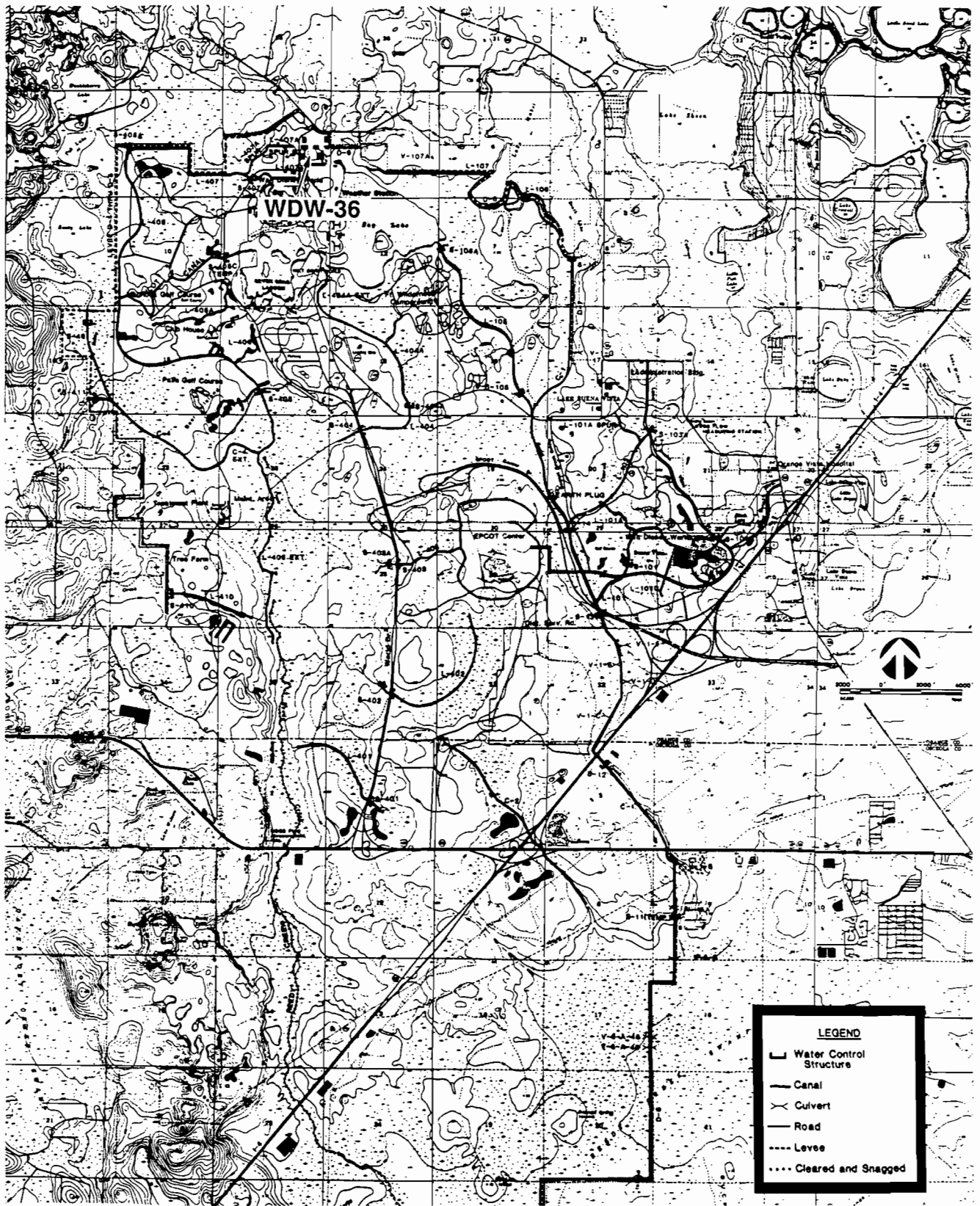


Figure 2
LOCATION OF NORTH SERVICE AREA

SOURCE: WDW, 1987.

**ENVIRONMENTAL SCIENCE
& ENGINEERING, INC.**

Attachment A
Emission Calculations

Usage = 30,000 gal/year of paint in seven mixing booths

Paint Density = 11 lb/gal. (typical)

Paint VOC Content = 70% (Typical)

Exposure to Air Period = 30 minutes/gal (Typical)

VOC loss rate = 1%/hour (Typical)

$$\begin{aligned} \text{Emission} &= \frac{30,000 \text{ gal/year}}{7 \text{ booths}} \times 11 \text{ lb/gal} \times 0.7 \\ &\times \frac{0.01/\text{hr}}{2496 \text{ hr}} \\ &= 0.13 \text{ lb/hr VOC per booth} \\ &= 0.17 \text{ tons/year VOC per booth} \end{aligned}$$

ATTACHMENT B

Mixing Station Stack Geometry and Flow Characteristics

Mixing Station	Stack Height (ft)	Stack Diameter (ft)	Gas Flow Rate (ACFM)	Gas Velocity (ft/sec)
1	10	0.5	400	34.0
2	10	0.5	400	34.0
3	10	0.5	400	34.0
4	10	0.5	400	34.0
5	23	1.5	3750	35.4
6	12	0.54 x 0.42	400	29.4
7	12	0.54 x 0.42	400	29.4

WDW-37 \$500.00.
4-26-90
Receipt #1151117

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2500 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



AC 48-179649

BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Paint Spray Booth New¹ Existing¹

APPLICATION TYPE: Construction Operation Modification

COMPANY NAME: Walt Disney World Co. COUNTY: Orange

Identify the specific emission point source(s) addressed in this application (i.e. Line
Kiln No. 4 with Venturi Scrubbers; Peakng Unit No. 2, Gas Fired) Disney Beach and Yacht Club

SOURCE LOCATION: Street World Drive City Paint Spray Booth

See Figure 1 UTM: East 444.998 North 3138.265

Latitude 28 ° 22 ' 15 "N Longitude 81 ° 33 ' 41 "W

APPLICANT NAME AND TITLE: Walt Disney World Co.

APPLICANT ADDRESS: P.O. Box 10,000, Lake Buena 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 control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I also understand that a permit, if granted by the department, will be non-transferable and I will promptly notify the department upon sale or legal transfer of the permitted establishment.

*Attach letter of authorization

Signed: Robert H. Penn
Robert H. Penn, Director, Environmental Affairs
Name and Title (Please Type)

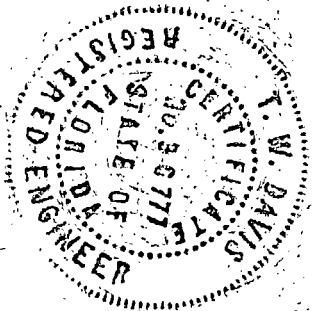
Date: 4-24-90 Telephone No. (407)824-4281

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

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

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

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



Signed Thomas W. Davis

Thomas W. Davis
Name (Please Type)

Environmental Science and Engineering
Company Name (Please Type)

P.O. Box 1703, Gainesville, Florida 32602
Mailing Address (Please Type)

Florida Registration No. 36777 Date: 4/20/90 Telephone No. (904)332-3318

SECTION II: GENERAL PROJECT INFORMATION

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

Installation of a paint spray booth, Binks Model PFF-10-8-T-LH. Booth will be used for spray coating miscellaneous parts for maintenance functions.

B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction 8/1/90 Completion of Construction 9/30/90

C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)

Approximately \$1,000.00

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

None

E. Requested permitted equipment operating time: hrs/day 16 ; days/wk 5 ; wks/yr 52 ;
if power plant, hrs/yr _____ ; if seasonal, describe: _____

F. If this is a new source or major modification, answer the following questions.
(Yes or No)

1. Is this source in a non-attainment area for a particular pollutant? No
a. If yes, has "offset" been applied? _____
b. If yes, has "Lowest Achievable Emission Rate" been applied? _____
c. If yes, list non-attainment pollutants. _____

2. Does best available control technology (BACT) apply to this source?
If yes, see Section VI. No

3. Does the State "Prevention of Significant Deterioration" (PSD)
requirement apply to this source? If yes, see Sections VI and VII. No

4. Do "Standards of Performance for New Stationary Sources" (NSPS)
apply to this source? No

5. Do "National Emission Standards for Hazardous Air Pollutants"
(NESHAP) apply to this source? No

H. Do "Reasonably Available Control Technology" (RACT) requirements apply
to this source? No

a. If yes, for what pollutants? _____

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

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

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

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

Description	Contaminants		Utilization* Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
Spray Enamel**	VOC	97.8	0.39	
Amer-Flint II Acrylic**	VOC	60	3.93	
Epoxy Primer**	VOC	70	4.58	

* Based on 16 hr/day 5 day/work week

**MSDS Provided in Appendix A

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

1. Total Process Input Rate (lbs/hr): 0

2. Product Weight (lbs/hr): _____

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

Name of Contaminant	Emission ¹		Allowed ⁴ Emission Rate per Rule 17-2	Allowable ³ Emission lbs/hr	Potential ⁴ Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Particulate	0.1	0.35	N/A	N/A	13,884	6.94	
VOC	5.95	12.3	N/A	N/A	5,945 24,733	12.3	
					3,337/hr		

¹See Section V, Item 2. *Calculations presented in Appendix B

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

³Calculated from operating rate and applicable standard.

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

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

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Binks Model PFF 10-8	Particulate	95%	N/A	Manufacturer's Specifications
-T-LH Paint Arrestor Spray Booth				
	Contains 20 filters, each 20" x 20" for a total area of 56 ft ² . See Attachment C			

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
Not applicable			

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

Fuel Analysis:

Percent Sulfur: _____ Percent Ash: _____

Density: _____ lbs/gal Typical Percent Nitrogen: _____

Heat Capacity: _____ BTU/lb _____ BTU/gal

Other Fuel Contaminants (which may cause air pollution): _____

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

Annual Average Not Applicable Maximum _____

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

Liquid waste paint and solvents will be collected and disposed of through Walt
Disney World Co.'s hazardous handling system.

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

Stack Height: 14 ft. Stack Diameter: 2.83 ft.
 Gas Flow Rate: 11,700 ACFM _____ DSCFM Gas Exit Temperature: Ambient °F.
 Water Vapor Content: Ambient % Velocity: 31.0 FPS

SECTION IV: INCINERATOR INFORMATION

Not Applicable

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

Description of Waste _____
 Total Weight Incinerated (lbs/hr) _____ Design Capacity (lbs/hr) _____
 Approximate Number of Hours of Operation per day _____ day/wk _____ wks/yr. _____
 Manufacturer _____
 Date Constructed _____ Model No. _____

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

Stack Height: _____ ft. Stack Diameter: _____ Stack Temp. _____
 Gas Flow Rate: _____ ACFM _____ DSCFM* Velocity: _____ FPS

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

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

Brief description of operating characteristics of control devices: _____

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

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

SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

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

9. The appropriate application fee in accordance with Rule 17-4.05. The check should be made payable to the Department of Environmental Regulation.
10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY

Not Applicable

A. Are standards of performance for new stationary sources pursuant to 40 C.F.R. Part 60 applicable to the source?

Yes No

Contaminant	Rate or Concentration

B. Has EPA declared the best available control technology for this class of sources (if yes, attach copy).

Yes No

Contaminant	Rate or Concentration

C. What emission levels do you propose as best available control technology?

Contaminant	Rate or Concentration

D. Describe the existing control and treatment technology (if any).

- | | |
|---------------------------|--------------------------|
| 1. Control Device/System: | 2. Operating Principles: |
| 3. Efficiency:* | 4. Capital Costs: |

*Explain method of determining

5. Useful Life:

6. Operating Costs:

7. Energy:

8. Maintenance Cost:

9. Emissions:

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

10. Stack Parameters

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

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

1.

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

2.

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

¹Explain method of determining efficiency.

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

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

3.

- a. Control Device:
- b. Operating Principles:
- c. Efficiency:¹
- d. Capital Cost:
- e. Useful Life:
- f. Operating Cost:
- g. Energy:²
- h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

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

4.

- a. Control Device:
- b. Operating Principles:
- c. Efficiency:¹
- d. Capital Costs:
- e. Useful Life:
- f. Operating Cost:
- g. Energy:²
- h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

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

F. Describe the control technology selected:

- 1. Control Device:
- 2. Efficiency:¹
- 3. Capital Cost:
- 4. Useful Life:
- 5. Operating Cost:
- 6. Energy:²
- 7. Maintenance Cost:
- 8. Manufacturer:

9. Other locations where employed on similar processes:

- a. (1) Company:
- (2) Mailing Address:
- (3) City:
- (4) State:

* Explain method of determining efficiency.
 Energy to be reported in units of electrical power - KWH design rate.

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant

Rate or Concentration

(8) Process Rate:¹

b. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant

Rate or Concentration

(8) Process Rate:¹

10. Reason for selection and description of systems:

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

Not Applicable

SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION

4. Company Monitored Data

1. _____ no. sites _____ TSP _____ () SO₂ _____ Wind spd/dir _____

Period of Monitoring _____ / _____ / _____ to _____ / _____ / _____
month day year month day year

Other data recorded _____

Attach all data or statistical summaries to this application.

Specify bubbler (B) or continuous (C).



WALT DISNEY World Co.

March 13, 1990

Mr. Robert H. Penn
Director, Environmental Affairs
Walt Disney World Co.
P.O. Box 10,000
Lake Buena Vista, FL 32830

Dear Bob:

This is to confirm that you have been authorized by
Walt Disney World Co. to sign applications for air emission
permits on behalf of the Company.

Sincerely,

Philip N. Smith
Secretary

PNS/kot

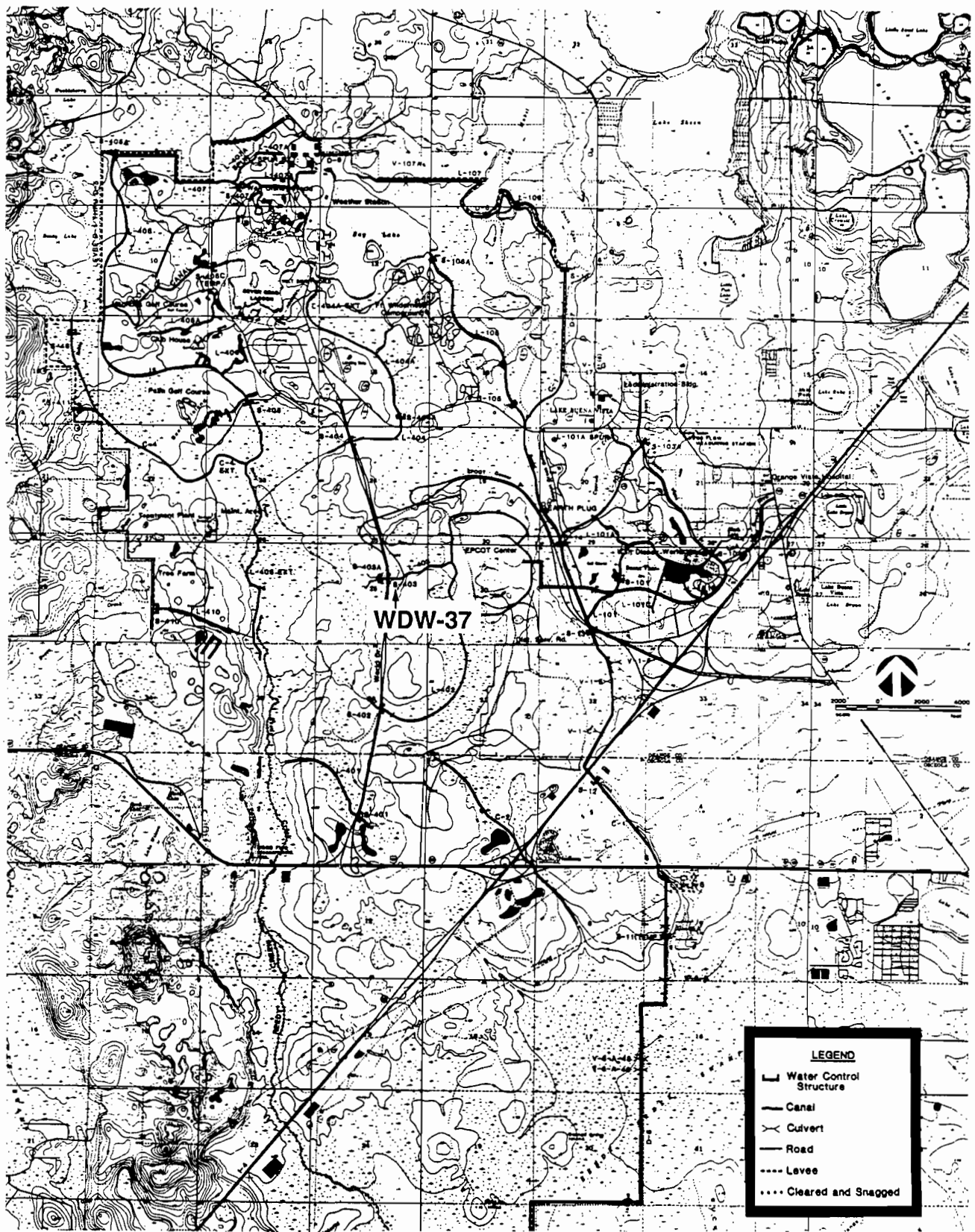


Figure 1
LOCATION OF DISNEY BEACH AND
YACHT CLUB PAINT SPRAY BOOTH

SOURCE: WDW, 1987.

ENVIRONMENTAL SCIENCE
& ENGINEERING, INC.

APPENDIX A

Material Safety Data Sheets

*Rubber - Vinyl -
upholstery SPRAY*

FORMER 5-16-79

Section I

MANUFACTURER'S NAME THE MARTIN-SENOR COMPANY
 STREET ADDRESS 1370 Ontario Street CITY STATE AND ZIP CODE Cleveland, Ohio 44113
 AGENCY TELEPHONE NO (216) 566-2917 or (216) 566-2630
 PRODUCT CLASS **Aerosol Spray Enamel** MANUFACTURERS CODE IDENTIFICATION **3470**
 PRODUCT NAME **Vinyl Color Spray White**

Section II - HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT By Weight	TLV		LEL	VAPOR PRESSURE PSIA
		PPM	mg. m ³		
Ethyl Ethyl Ketone	50	200	590	1.6	70.0
Toluene	10	100	375	1.0	22.0
Ethoxyethyl Acetate	10	100	540	1.8	2.0
Butyl Acetate	<5	150	710	1.7	8.0
Ethyl Heptyl Ketone	<5	75	436	0.9	2.0
Isobutane/Propane (Propellant)	20	500	1150	1.8	760.0

Section III - PHYSICAL DATA

TEMPERATURE RANGE 1-425°F VAPOR DENSITY HEAVIER LIGHTER THAN AIR
 EVAPORATION RATE FASTER SLOWER THAN ETHER PERCENT VOLATILE BY VOLUME 97.8% WEIGHT PER GALLON 6.3 lb.

Section IV - FIRE AND EXPLOSION HAZARD DATA

HAZARD CATEGORY Red Label, Extremely Flammable, Flash Below 20°F FLASH POINT 101 PMCC LEL 0.4

EXTINGUISHING MEDIA
 Carbon Dioxide, Dry Chemical, Foam.

USUAL FIRE AND EXPLOSION HAZARDS
 Water spray may be ineffective. Water should be used to keep fire exposed containers cool.

SPECIAL FIRE FIGHTING PROCEDURES
 Keep containers isolated from heat, sparks, and open flame.

In a confined area vapors in high concentration are anesthetic. Irritant to skin and upper respiratory system. Over-exposure may result in lightheadedness and staggering gait. Repeated and prolonged exposure to spray mist may cause perforation of nasal septum and ulcers of the skin.

EMERGENCY AND FIRST AID PROCEDURES

Remove from exposure. Restore breathing. Keep warm and quiet. If contact with eyes is made, flush with copious quantities of water for 15 minutes. Wash affected area with water. Remove contaminated clothing and wash before reuse.

Section VI — REACTIVITY DATA

STABILITY UNSTABLE STABLE CONDITIONS TO AVOID
 COMPATIBILITY Materials to avoid
 HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide, Hydrogen Chloride

HAZARDOUS POLYMERIZATION MAY OCCUR WILL NOT OCCUR
 CONDITIONS TO AVOID

Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
 Remove all sources of ignition. Ventilate and remove with inert absorbent.

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

Section VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION
 If engineering and administrative controls of air contaminants are not feasible, use respiratory devices approved by NIOSH/MESA for protection against spray mist and vapors.

VENTILATION Local exhaust is required to keep exposure limits below TLV and lower explosion limit during spray application. General exhaust may be acceptable for other application methods.

PROTECTIVE GLOVES Required for prolonged or repeated contact.
 EYE PROTECTION Safety spectacles with unperforated sideshields.

OTHER PROTECTIVE EQUIPMENT

Section IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Contents are extremely flammable and under pressure. Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively. During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition. Avoid breathing vapor and spray mist. Use only with adequate ventilation. Avoid contact with skin and eyes. Wash hands after using. Do not expose to temperatures above 120°F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Harmful or fatal if swallowed. If swallowed, do not induce vomiting. Call physician at once. Do not puncture or incinerate. Keep out of the reach of children. Consult NFPA Code. Use approved Bonding and Grounding procedures.

200/4/83 520346

FOR COATINGS, RESINS AND RELATED MATERIALS

NPCA 1-72

Date of PREP: 09/28/83

(Similar to Form OSHA-20)

SECTION I

Manufacturer's Name: PPG Industries, Inc. Coatings & Resins Group
Address: 260 Kappa Drive Pittsburgh, Pa 15238
Attn: Manager, Industrial Hygiene and Product Safety
Emergency Telephone: (304) 843-1300

Product Class: ACRYLIC - WHITE Manufacturer Code: DMR400
Trade Name: DELSTAR MIXING ACRYLIC ENAMEL (0302825)

SECTION II - HAZARDOUS INGREDIENTS

Table with 6 columns: INGREDIENTS, % WT., *TLV(1984), **PPG IPEL, CASNO, LEL, V.P.
Rows include XYLENE and ACRYLONITRILE with their respective values.

NOTE * = Threshold Limit Value established by American Conference of Governmental Industrial Hygienists
** = PPG's Internal Permissible Exposure Limit

SECTION III - PHYSICAL DATA

Boiling Range: 138-145 DEG.C. Vapor Density - HEAVIER THAN AIR
Evaporation Rate = SLOWER THAN ETHER % Volatile/Vol: 56.09 Wt/Gal: 12.01

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

DOT Category: FLAMMABLE Flashpoint: 79 DEG.F. PMCC LEL: 1.1

Extinguishing Media:

USE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CLASS B EXTINGUISHERS (CARBON DIOXIDE, DRY CHEMICAL OR FOAM) DESIGNED TO EXTINGUISH NFPA CLASS IC FLAMMABLE LIQUID FIRES.

Unusual Fire & Explosion Hazards:

KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAME. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. DO NOT APPLY ON HOT SURFACES.

Special Fire Fighting Procedures:

WATER SPRAY MAY BE INEFFECTIVE. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE AUTOIGNITION OR EXPLOSION WHEN EXPOSED TO EXTREME HEAT. IF WATER IS USED, FOG NOZZLES ARE PREFERABLE.

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value: SEE SEC. II

Effects of Overexposure:

INHALATION: ANESTHETIC. AVOID BREATHING OF VAPORS AND SPRAY MISTS. IRRITATION OF THE RESPIRATORY TRACT OR ACUTE NERVOUS SYSTEM DEPRESSION CHARACTERIZED BY THE FOLLOWING PROGRESSIVE STEPS: HEADACHE, DIZZINESS, STAGGERING GAIT, CONFUSION, UNCONSCIOUSNESS, OR COMA. MATERIAL CONTAINS ACRYLONITRILE POLYMERS AND MUST NOT BE MASS HEATED WITHOUT AIR SAMPLING TO DETERMINE COMPLIANCE WITH OSHA 1910.1045.

SKIN OR EYE CONTACT: PRIMARY IRRITATION. REPEATED OVEREXPOSURE TO SOLVENT VAPORS MAY CAUSE PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS CAN BE HARMFUL OR FATAL. EYE WATERING, HEADACHES, NAUSEA, DIZZINESS, AND LOSS OF COORDINATION ARE INDICATIONS THAT SOLVENT LEVELS ARE TOO HIGH.

Emergency and First Aid Procedures:

FUMES: REMOVE FROM EXPOSURE. RESTORE BREATHING. KEEP WARM AND QUIET. NOTIFY A PHYSICIAN. SPLASH (EYES): FLUSH IMMEDIATELY WITH COPIOUS QUANTITIES OF RUNNING WATER FOR AT LEAST 15 MINUTES. TAKE TO A PHYSICIAN FOR DEFINITIVE MEDICAL TREATMENT. SPLASH (SKIN): WASH AFFECTED AREAS WITH WATER. REMOVE CONTAMINATED CLOTHING.

RECEIVED

JUL 14 1986

HEALTH SERVICES DES

Handwritten note in a box: PAINT metal Fiberglass WOOD

STABILITY: STABLE Conditions to Avoid: UNKNOWN

Incompatibility (Materials to Avoid): UNKNOWN

Hazardous Decomposition Products:

May produce hazardous fumes when heated to decomposition as in welding.

Fumes may contain: Carbon Monoxide, Acrylonitrile

Hazardous Polymerization - WILL NOT OCCUR

CONDITIONS TO AVOID: UNKNOWN

SECTION VII - SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

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

Waste Disposal Method:

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

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection:

OUTDOOR/OPEN AREAS: USE FILTER TYPE RESPIRATORS (NIOSH/MSHA TC21C) TO REMOVE SOLID AIRBORNE PARTICULATES FROM OVERSPRAY. RESTRICTED VENTILATION AREAS: USE COMBINATION ORGANIC VAPOR-FILTER TYPE RESPIRATORS (NIOSH/MSHA TC23C) DESIGNED TO PURIFY THE AIR BY REMOVING SOLID AIRBORNE PARTICULATES AND ORGANIC VAPORS. CONFINED AREAS: USE SUPPLIED AIR RESPIRATORS OR HOODS (NIOSH/MSHA TC19C). IN ALL CASES, PLEASE READ MANUFACTURER'S INSTRUCTIONS CAREFULLY TO DETERMINE THE TYPE OF AIRBORNE CONTAMINANTS AGAINST WHICH THE RESPIRATOR IS EFFECTIVE, AND HOW IT IS TO BE PROPERLY FITTED.

Ventilation:

PROVIDE GENERAL DILUTION OR LOCAL EXHAUST VENTILATION IN VOLUME AND PATTERN TO KEEP THE CONCENTRATION OF HAZARDOUS INGREDIENTS LISTED IN SECTION II BELOW THE LOWEST SUGGESTED EXPOSURE LIMITS, THE LEL IN SECTION IV BELOW THE STATED LIMIT, AND TO REMOVE DECOMPOSITION PRODUCTS DURING WELDING OR FLAME CUTTING ON SURFACES COATED WITH THIS PRODUCT.

Protective Gloves:

REQUIRED FOR PROLONGED OR REPEATED CONTACT.

Eye Protection:

USE SAFETY EYEWEAR DESIGNED TO PROTECT AGAINST SPLASH OF LIQUIDS.

Other Protective Equipment:

PREVENT PROLONGED SKIN CONTACT TO CONTAMINATED CLOTHING.

SECTION IX - SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing:

DO NOT STORE ABOVE 120 F. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED AND PROTECTED FOR STORAGE OF NFPA CLASS IC FLAMMABLE LIQUIDS.

Other Precautions:

DO NOT TAKE INTERNALLY. CONTAINERS SHOULD BE GROUNDED WHEN POURING. AVOID FREE FALL OF LIQUID IN EXCESS OF A FEW INCHES. DO NOT FLAME CUT, BRAZE OR WELD WITHOUT NIOSH APPROVED RESPIRATORS OR APPROPRIATE VENTILATION. IMPORTANT: THE CONTENTS OF THIS PACKAGE MUST BE BLENDED WITH OTHER COMPONENTS BEFORE THE PRODUCT CAN BE USED. BEFORE OPENING THE PACKAGES, BE SURE YOU UNDERSTAND THE WARNING MESSAGES ON THE LABELS OF ALL COMPONENTS SINCE THE MIXTURE MAY HAVE THE HAZARDS OF ALL ITS PARTS. OBSERVE ALL APPLICABLE PRECAUTIONS.

BEST AVAILABLE COPY
MATERIAL SAFETY DATA SHEET
FOR COATINGS, RESINS AND RELATED MATERIALS

AMERICAN LACQUER & SOLVENTS COMPANY
 2601 E. HENRY AVENUE
 TAMPA, FLORIDA 33610

DATE OF PREPARATION:
 1/22/87

EMERGENCY TELEPHONE NO.:

SIGNATURE OF PREPARER:

H. J. [Signature]

INFORMATION TELEPHONE NO.: 813-236-5594

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NUMBER: (119) 302, 306, 310, 311, 312, 313, 316, 321, 325, 326, 335, 342, 353, 355, 358, 359, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 373, 374, 375, 379, 381, 382, 383

PRODUCT CLASS: ~~ACRYLIC~~

PRODUCT NAME: ~~MER-FLINT~~

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	CAS NUMBER	PERCENT	OCCUPATIONAL EXPOSURE LIMITS		VAPOR PRESSURE
			TLV	PEL	
METHYL ETHYL KETONE	108-88-3	< 20	100		36.7mm@30°C
ETHYL ACETATE	64742-95-6	< 10	200		71.2mm@20°C
XYLOL	1330-20-7	< 20	100		10.0mm@28°C
METHYL ACETATE	141-78-6	< 7	400		86.0mm@20°C
ETHYL ACETATE	108-65-6	< 15	NE		3.7mm@20°C

SECTION III - PHYSICAL DATA

BOILING RANGE 75-150°C VAPOR DENSITY HEAVIER LIGHTER THAN AIR
 EVAPORATION RATE FASTER SLOWER THAN ETHER 52-60% VOLATILE WT. WT/GAL 8.2-9.0

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION 1B OSHA _____ FLASH POINT LEL
 DOT _____ 22°F T.O.C. 1.1

EXTINGUISHING MEDIA:

FOAM ALCOHOL CO2 WATER FOG OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS: KEEP CONTAINER TIGHTLY CLOSED. AVOID HEAT, OPEN FLAMES, STATIC ELECTRICITY, ELECTRICAL EQUIPMENT AND SPARKS. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. APPLICATION TO HOT SURFACES REQUIRES SPECIAL PRECAUTIONS. DURING EMERGENCY SITUATION, OVER-EXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD WITH NO SYMPTOMS IMMEDIATELY APPARENT. OBTAIN MEDICAL ATTENTION.

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

SECTION V - HEALTH HAZARD DATA

PRIMARY ROUTE (S) OF ENTRY: DERMAL INHALATION INGESTION

EMERGENCY AND FIRST AID PROCEDURE

EYE CONTACT	If this product comes in contact with the eyes, flush with large quantities of water for at least 15 minutes and seek immediate medical attention.
SKIN CONTACT	If this product comes in contact with the skin, wash with soap and large quantities of water and seek medical attention if irritation from contact persists.
INHALATION	If breathing difficulties, headaches, dizziness, or lightheadedness occur when working in areas with high vapor concentrations, victim should seek air free of vapors. If victim experiences continued breathing difficulties, administer oxygen until medical assistance can be rendered. If breathing stops, begin artificial respiration and seek medical attention.
INGESTION	If this product is swallowed, DO NOT INDUCE VOMITING. Seek immediate medical advice and/or attention.

PHYSIOLOGICAL EFFECTS AND HEALTH INFORMATION

EYE EFFECTS	This product may be an eye irritant. Tearing and redness may occur.
SKIN EFFECTS	This product may cause skin irritation upon prolonged or repeated contact.
SYSTEMIC EFFECTS	<p>VARIOUS STUDIES HAVE SHOWN A POSSIBLE ASSOCIATION WITH EXPOSURE TO THIS PRODUCT AND THE FOLLOWING:</p> <p>Respiratory tract irritation.</p> <p>Central nervous system depression in high concentrations.</p> <p>Nausea and vomiting.</p> <p>NOTE: REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OVER-EXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.</p> <p>SOLVENT MAY CAUSE KIDNEY OR LIVER DAMAGE.</p>

SECTION VI – REACTIVITY DATA

STABILITY UNSTABLE STABLE

HAZARDOUS POLYMERIZATION MAY OCCUR WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: Unknown other than CO₂ and possibly CO and Smoke.

CONDITIONS TO AVOID: Heat, open flames, electrical and static discharges.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong Acids, Alkalies and Oxidizers.

SECTION VII – SPILL OR LEAK PROCEDURES

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

VENTILATE AREA. REMOVE ALL POSSIBLE SOURCES OF IGNITION. AVOID PROLONGED BREATHING OF VAPORS. CONFINED SPILL WITH INERT ABSORBENT AND CLEAN UP WITH SPARK-PROOF TOOLS. WEAR PROTECTIVE EQUIPMENT DURING CLEAN-UP.

WASTE DISPOSAL: Incinerate in an approved incinerator or dispose of in an approved chemical dumpsite in accordance with Local, State and Federal Regulations by approved contractors.

SECTION VIII – SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved Chemical/Mechanical type filter system to remove a combination of particles, gas & vapor. Use air line if necessary.

VENTILATION: Use adequate ventilation in volume and pattern to keep LEL and TLV's in Section II below recommended level to produce explosion or fire. General mechanical ventilation should comply with OSHA 1910.94.

PROTECTIVE GLOVES: Use rubber gloves.

EYE PROTECTION: Safety glasses or goggles with splash guards or side shields.

OTHER PROTECTIVE EQUIPMENT: Prevent prolonged skin contact to contaminated clothing.

SECTION IX – SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in a cool dry area away from sources of ignition. When storing large quantities, store in building designed and protected against flammable liquids. Use static lines when mixing and transferring material. Do not allow material to free fall more than five (5) inches.

OTHER PRECAUTIONS: "FOR INDUSTRIAL USE ONLY" Do not take internally. If ingested, DO NOT INDUCE VOMITING. Consult a physician. Do not flame cut, weld, or braze on coated metal without a NIOSH/MSHA approved respirator.

The information contained herein is based on technical data which we believe to be reliable, however, since the conditions under which this information may be applied are beyond our control, we can assume no liability for results of its application. This information should be used only by persons having sufficient technical skill to make informed judgements regarding its application.

AMERICAN LACQUER & SOLVENTS COMPANY

2601 E. HENRY AVENUE
TAMPA, FLORIDA 33610

MAR 18 1988

HEALTH SERVICES DEPT

DATE OF PREPARATION: 3/15/88

EMERGENCY TELEPHONE NO.:

SIGNATURE OF PREPARER:

INFORMATION TELEPHONE NO.: 813-236-5594

H. L. Clavin

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NUMBER:

30-543 BLACK PLASTIC PRIMER

Quick Dryer
Enamel
water base } Paints

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	CAS NUMBER (LESS THAN)	PERCENT	OCCUPATIONAL EXPOSURE LIMITS			VAPOR PRESSURE
			TLV	PPM	PEL ³ _{mg/m}	
UENE	108-88-3	13	100	unk	unk	36.7mm@30°C
PROPYL ALCOHOL	67-63-0	14	400	400	980	33mm@20°C
ENE	1330-20-7	13	100	100	435	10mm@28°C
IPHATIC HYDROCARBON	64742-89-8	2	-	500	-	-
THYL ETHYL KETONE	78-93-3	13	200	-	-	71.2mm@20°C
BUTYATE ACETATE	110-19-0	13	150	150	700	12.5mm@20°C
YLENE BENZENE	100-41-4	2	100	100	435	10mm@Hg
ROCARBON MIX	741-41-9	1	300	-	-	30mm@100°F
REON	-	2	3.5mg/m ³	-	-	-
YL CELLOSOLVE	111-76-2	1	-	-	-	0.6mm@20°C
SPHORIC ACID	7064-38-2	0.6	corrosive	-	-	-

* OSHA, 1976 ACGIH, 1977

SECTION III - PHYSICAL DATA

BOILING RANGE 78-172.5°C VAPOR DENSITY HEAVIER LIGHTER THAN AIR
EVAPORATION RATE FASTER SLOWER THAN ETHER 47 % VOLATILE WT. WT/GAL 9

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION 1 B OSHA _____ FLASH POINT _____ LEL _____
DOT _____ 10°F T.C.C. 1,000

EXTINGUISHING MEDIA:

FOAM ALCOHOL CO2 WATER FOG OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS: KEEP CONTAINER TIGHTLY CLOSED. AVOID HEAT, OPEN FLAMES, STATIC ELECTRICITY, ELECTRICAL EQUIPMENT AND SPARKS. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. APPLICATION TO HOT SURFACES REQUIRES SPECIAL PRECAUTIONS. DURING EMERGENCY SITUATION, OVER-EXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD WITH NO SYMPTOMS. IMMEDIATELY OBTAIN MEDICAL ATTENTION.

SPECIAL FIRE FIGHTING PROCEDURES: FULL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED. - WATER SPRAY MAY BE INEFFECTIVE. IF WATER IS USED, FOG NOZZLES ARE PREFERRED. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE AUTO IGNITION EXPOSED TO EXTREME HEAT.

PRIMARY ROUTE(S) OF EXPOSURE:

 DERMAL INHALATION INGESTION

EMERGENCY AND FIRST AID PROCEDURE

EYE CONTACT	If this product comes in contact with the eyes, flush with large quantities of water for a least 15 minutes and seek immediate medical attention.
SKIN CONTACT	If this product comes in contact with the skin, wash with soap and large quantities of water and seek medical attention if irritation from contact persists.
INHALATION	If breathing difficulties, headaches, dizziness, or lightheadedness occur when working in areas with high vapor concentrations, victim should seek air free of vapors. If victim experiences continued breathing difficulties, administer oxygen until medical assistance can be rendered. If breathing stops, begin artificial respiration and seek medical attention.
INGESTION	If this product is swallowed, DO NOT INDUCE VOMITING. Seek immediate medical advice and/or attention.

PHYSIOLOGICAL EFFECTS AND HEALTH INFORMATION

EYE EFFECTS	This product may be an eye irritant. Tearing and redness may occur.
SKIN EFFECTS	This product may cause skin irritation upon prolonged or repeated contact.
SYSTEMIC EFFECTS	<p>VARIOUS STUDIES HAVE SHOWN A POSSIBLE ASSOCIATION WITH EXPOSURE TO THIS PRODUCT AND THE FOLLOWING:</p> <p>Respiratory tract irritation.</p> <p>Central nervous system depression in high concentrations.</p> <p>Nausea and vomiting.</p> <p>NOTE: REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OVER-EXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.</p> <p>NOTE: THIS MIXTURE CONTAINS XYLENE & TOLUENE WHICH CAN CAUSE MULTIPLE INTERNAL ORGAN DAMAGE (I.E., KIDNEY & LIVER DAMAGE.)</p>

SECTION VI - REACTIVITY DATA

ABILITY

 UNSTABLE STABLE

DANGEROUS POLYMERIZATION

 MAY OCCUR WILL NOT OCCURDANGEROUS DECOMPOSITION PRODUCTS: Unknown other than CO₂ and possibly CO and Smoke.

CONDITIONS TO AVOID: Heat, open flames, electrical and static discharges.

COMPATIBILITY (MATERIALS TO AVOID): Strong Acids, Alkalies and Oxidizers.

SECTION VII - SPILL OR LEAK PROCEDURES

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

VENTILATE AREA. REMOVE ALL POSSIBLE SOURCES OF IGNITION. AVOID PROLONGED BREATHING OF VAPORS. CONFINE SPILL WITH INERT ABSORBENT AND CLEAN UP WITH SPARK-PROOF TOOLS. WEAR PROTECTIVE EQUIPMENT DURING CLEAN-UP.

WASTE DISPOSAL: Incinerate in an approved incinerator or dispose of in an approved chemical dumpsite in accordance with Local, State and Federal Regulations by approved contractors.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved Chemical/Mechanical type filter system to remove a combination of particles, gas & vapor. Use air line if necessary.

VENTILATION: Use adequate ventilation in volume and pattern to keep LEL and TLV's in Section II below recommended level to produce explosion or fire. General mechanical ventilation should comply with OSHA 1910.94.

PROTECTIVE GLOVES: Use rubber gloves.

EYE PROTECTION: Safety glasses or goggles with splash guards or side shields.

OTHER PROTECTIVE EQUIPMENT: Prevent prolonged skin contact to contaminated clothing.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in a cool dry area away from sources of ignition. When storing large quantities, store in building designed and protected against flammable liquids. Use static lines when mixing and transferring material. Do not allow material to free fall more than five (5) inches.

OTHER PRECAUTIONS: "FOR INDUSTRIAL USE ONLY" Do not take internally. If ingested, DO NOT INDUCE VOMITING. Consult a physician. Do not flame cut, weld, or braze on coated metal without a NIOSH/MSHA approved respirator.

The information contained herein is based on technical data which we believe to be reliable, however, since the conditions under which this information may be applied are beyond our control, we can assume no liability for results of its application. This information should be used only by persons having sufficient technical skill to make informed judgements regarding its application.

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS AND RELATED MATERIALS

NFPA 1-72

(Similar to Form OSHA-20)

SECTION I

Manufacturer's Name: FFG Industries, Inc. Coatings & Resins Division
Address: One Gateway Center - Pittsburgh, Pa 15222
Attn: Manager, Industrial Hygiene and Product Safety
Emergency Telephone: (304) 843-1300

Product Class: Epoxy Primer
Product Name: EPOXY PRIMER
Manufacturer's Code: IIF 40 (090122D)

SECTION II - HAZARDOUS INGREDIENTS

Table with 8 columns: INGREDIENTS, % WEIGHT, *TLV(1982), **PPG IFEL, LEL, Vapor Pressure. Rows include: BUTYL ACETATE 110-19-0, TANONE, Y RESIN, ANTIUM CHROMATE 7789062, BENE 108-88-2, BUTYL ALCOHOL 67630, DITHIOXY-2 PROPANOL, ENE GLYCOL MONOETHYL ETHER ACETATE, PROPYL ALCOHOL, ANHYDROUS, NE 1330-20-7.

SECTION III - PHYSICAL DATA

Boiling Point: 20-186 DEG.C. Vapor Density - HEAVIER THAN AIR
Evaporation Rate = SLOWER THAN ETHER % Volatile/Vol: 70.04 Ut/Gal: 10.47

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flashpoint: 24 DEG.F. FPOD LEL: 1.3
USE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CLASS 3 EXTINGUISHERS (CARBON DIOXIDE, DRY CHEMICAL OR FOAM) DESIGNED TO EXTINGUISH NFPA CLASS 3 FLAMMABLE LIQUID FIRES.

Usual Fire & Explosion Hazards: KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAME. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. DO NOT APPLY ON HOT SURFACES.

Special Fire Fighting Procedures: WATER SPRAY MAY BE INEFFECTIVE. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE AUTOIGNITION OR EXPLOSION WHEN EXPOSED TO EXTREME HEAT. IF WATER IS USED, FOG NOZZLES ARE PREFERABLE.

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value: SEE SEC. II
Effects of Overexposure: CONTAINS: Ethylene glycol monoethyl ether acetate
POSSIBLE REPRODUCTIVE HAZARD. TESTS IN EXPERIMENTAL ANIMALS HAVE DEMONSTRATED ADVERSE EFFECTS ON REPRODUCTIVE TISSUES AND FETAL DEVELOPMENT. BLOOD ABNORMALITIES HAVE ALSO BEEN OBSERVED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN

INHALATION: ANESTHETIC. IRRITATION OF THE RESPIRATORY TRACT OR ACUTE NERVOUS SYSTEM DEPRESSION CHARACTERIZED BY THE FOLLOWING PROGRESSIVE STEPS: HEADACHE, DIZZINESS, STAGGERING GAIT, CONFUSION, UNCONSCIOUSNESS, OR COMA.
SKIN OR EYE CONTACT: PRIMARY IRRITATION. MAY SENSITIZE SKIN.

Emergency and First Aid Procedures:
FUMES: REMOVE FROM EXPOSURE. RESTORE BREATHING. KEEP WARM AND QUIET. NOTIFY A PHYSICIAN. SPLASH (EYES): FLUSH IMMEDIATELY WITH COPIOUS QUANTITIES OF RUNNING WATER FOR AT LEAST 15 MINUTES. NOTIFY A PHYSICIAN FOR DEFINITIVE MEDICAL TREATMENT. SPLASH (SKIN): WASH AFFECTED AREAS WITH WATER. REMOVE CONTAMINATED CLOTHING.

CONSULT A PHYSICIAN.

SECTION VI - REACTIVITY DATA

Stability: STABLE Conditions to Avoid: UNKNOWN
 Compatibility (Materials to Avoid): UNKNOWN
 Hazardous Decomposition Products: May produce hazardous fumes when heated to decomposition as in welding.
 May contain: Carbon Monoxide, Oxides of Carbon, Cyanides
 Polymerization - WILL NOT OCCUR
 Conditions to Avoid: UNKNOWN

SECTION VII - SPILL OR LEAK PROCEDURES *****

Steps to be Taken in Case Material is Released or Spilled:
 REMOVE ALL SOURCES OF IGNITION (FLAMES, HOT SURFACES, AND ELECTRICAL, STATIC, OR FRICTIONAL SPARKS). AVOID BREATHING VAPORS. VENTILATE AREA. REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS.

Recommended Disposal Method: DISPOSE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection:
 OUTDOOR/OPEN AREAS: USE FILTER TYPE RESPIRATORS (NIOSH/MSHA TC21) TO REMOVE SOLID AIRBORNE PARTICULATES FROM OVERSPRAY. RESTRICTED VENTILATION AREAS: USE COMBINATION ORGANIC VAPOR-FILTER TYPE RESPIRATORS (NIOSH/MSHA TC23C) DESIGNED TO PURIFY THE AIR BY REMOVING SOLID AIRBORNE PARTICULATES AND ORGANIC VAPORS. CONFINED AREAS: USE SUPPLIED AIR RESPIRATORS OR HOODS (NIOSH/MSHA TC19C). IN ALL CASES, PLEASE READ MANUFACTURER'S INSTRUCTIONS CAREFULLY TO DETERMINE THE TYPE OF AIRBORNE CONTAMINANTS AGAINST WHICH THE RESPIRATOR IS EFFECTIVE, AND HOW IT IS TO BE PROPERLY FITTED.
 Attention:-----> PROVIDE GENERAL DILUTION OR LOCAL EXHAUST VENTILATION IN VOLUME AND PATTERN TO KEEP THE CONCENTRATION OF HAZARDOUS INGREDIENTS LISTED IN SECTION II BELOW THE LOWEST SUGGESTED EXPOSURE LIMIT, THE LEL IN SECTION IV BELOW THE STATED LIMIT, AND TO REMOVE DECOMPOSITION PRODUCTS DURING WELDING OR FLAME CUTTING ON SURFACES COATED WITH THIS PRODUCT.

Protective Gloves:---> REQUIRED.

Eye Protection:-----> REQUIRED.

Personal Protective Equipment:

WEAR IMPERVIOUS CLOTHING AND EQUIPMENT TO PREVENT EYE AND SKIN CONTACT.

SECTION IX - SPECIAL PRECAUTIONS *****

Precautions to be Taken in Handling and Storing:
 DO NOT STORE ABOVE 120F. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED AND PROTECTED FOR STORAGE OF NFPA CLASS IB FLAMMABLE LIQUIDS.

Other Precautions:---> DO NOT TAKE INTERNALLY. CONTAINERS SHOULD BE GROUNDED WHEN POURING. AVOID FREE FALL OF LIQUID IN EXCESS OF A FEW INCHES. DO NOT FLAME CUT, BRAZE OR WELD WITHOUT NIOSH APPROVED RESPIRATORS OR APPROPRIATE VENTILATION.

CONTAINS CHROMATE PIGMENTS. DURING SPRAY APPLICATION OR DRIED FILM SANDING, ENGINEERING AND ADMINISTRATIVE CONTROLS MUST BE INSTITUTED TO MAINTAIN AN EXPOSURE LEVEL BELOW .05 MG/M3. IF THESE CONTROLS ARE NOT ADEQUATE, THE USE OF A RESPIRATOR IS RECOMMENDED.

IMPORTANT: THE CONTENTS OF THIS PACKAGE MUST BE BLENDED WITH OTHER COMPONENTS BEFORE THE PRODUCT CAN BE USED. BEFORE OPENING THE PACKAGES, BE SURE YOU UNDERSTAND THE WARNING MESSAGES ON THE LABELS OF ALL COMPONENTS SINCE THE MIXTURE MAY HAVE THE HAZARDS OF ALL ITS PARTS. OBSERVE ALL

MANUFACTURER:
MATTHEWS PAINT COMPANY
400 SOUTH MERCANTILE COURT
WHEELING, ILLINOIS 60090

EMERGENCY PHONE:
1-800-424-9300



INFORMATION PHONE:
(312) 537-9200

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NUMBER : ~~XXXXXXXXXX~~
PRODUCT NAME : ~~XXXXXXXXXX~~

HAZID : H2F8R1P1
PREPARATION DATE: 12/22/87

CHEMICAL NAME : ORGANIC COATING
CHEMICAL FAMILY : PAINT

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT DESCRIPTION	CAS NUMBER	WEIGHT		
		PERCENT	TLV	REL
PHTHA NIOSH PAGE 170(1)	64742-89-8	4.51	500.00 PPM	100.00 PPM
ALUOL NIOSH PAGE 226(2)	109-88-3	7.47	100.00 PPM	100.00 PPM
ETHYL BENZENE NIOSH PAGE 118(2)	100-41-4	4.58	100.00 PPM	100.00 PPM
ISOBUTYL ACETATE NIOSH PAGE 142(3)	110-19-0	6.22	150.00 PPM	150.00 PPM
XYLENE GLYCOL M.E. ACETATE NO NIOSH REF.	108-65-6	16.66	N/EST.	N/EST.

SECTION III - PHYSICAL DATA

BOLLING RANGE : 230 TO 302 (deg F)
VAPORATION RATE: SLOWER THAN ETHER
WEIGHT PER GALLON: 10.442
SG : 4.355 (lb/gal)

VAPOR DENSITY : HEAVIER THAN AIR
% VOLATILE VOLUME : 57.452
% NON-VOLATILE (WGT) : 58.297
% NON-VOLATILE (VOL) : 42.548

APPEARANCE : WHITE LIQUID
ODOR : TYPICAL SOLVENT ODOR

CONFIDENTIAL
TRADE SECRET

SECTION V (CONT) - HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY: (X) DERMAL (X) INHALATION (X) INGESTION

EMERGENCY FIRST AID PROCEDURES:

Remove to fresh air and treat symptomatically. flush skin or eyes with water.
Call physician if ingested. DO NOT induce vomiting.

SECTION VI - REACTIVITY DATA

STABILITY : STABLE

CONDITIONS TO AVOID:

Heat, sparks, open flame and fire and open containers.

MATERIALS TO AVOID:

Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:

Normal decomposition may yield oxides of carbon.

HAZARDOUS POLYMERIZATION:

Will not occur.

SECTION VII - SPILL OR LEAK PROCEDURES

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

Remove all sources of ignition (flame, hot surfaces, electrical, static or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose in accordance with local, state and federal regulations. Incinerate in approved facility. Do not incinerate closed containers.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

Wear appropriate, properly fitted respirator (NIOSH/MSHA approved for ISOCYANATES) during and after application, and until all fumes and mists have been removed. Follow respirator manufacturer's directions for respirator use.

VENTILATION:

Local exhaust ventilation is recommended to control exposures to within OSHA limitations for lead, chromates and solvents.

PROTECTIVE GLOVES:

Impervious gloves.

EYE PROTECTION:

Chemical goggles or face shield.

OTHER PROTECTIVE EQUIPMENT:

Impervious apron, safety shoes, eye wash facility, emergency shower.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: UN1268 PAINT FLAMMABLE LIQ.

FLASH POINT: 45 deg F) TCC LEL: .80 UEL: 13.10

SPECIAL FIRE FIGHTING PROCEDURES

Foam, CO₂N, or dry chemical. Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed container to prevent pressure build up, explosion, or possible auto ignition when exposed to extreme heat.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Should be stored in tightly closed containers away from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SECTION V - HEALTH HAZARD DATA

TARGET ORGANS/SYSTEMS WHICH MAY BE AFFECTED:

skin, eyes, respiratory system, central nervous system, gastro-intestinal system, kidney, liver, lymphatic system, blood

EFFECTS OF OVEREXPOSURE:

ACUTE OVEREXPOSURE MAY LEAD TO THE FOLLOWING INDICATIONS/CONDITIONS:

CONTACT:

Irritates eyes, irritates skin, irritates mucous membranes

INHALATION:

Irritates nose and throat, dizziness, drowsiness, loss of coordination, fatigue, irritates respiratory system, shortness of breath, light headedness, headache, irritates gastro-intestinal system

INGESTION:

Irritates respiratory system, dizziness, drowsiness, loss of coordination, fatigue, irritates gastro-intestinal system, nausea, vomiting, narcosis, coma, lung damage/inflammation, irritates nose and throat, toxic by ingestion

ABSORPTION:

toxic by contact

CHRONIC OVEREXPOSURE MAY LEAD TO THE FOLLOWING INDICATIONS/CONDITIONS:

dermatitis, asthma, liver damage, kidney damage, red blood cell damage

WARNING: Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

MAP contains ester solvents. Breathing of these solvents is hazardous and should be avoided. Always keep containers closed when not in use. IMPORTANT: When mixed with a MAP CATALYST, MAP will have hazards of all components. Observe all applicable label warnings. Always provide adequate ventilation. DO NOT use near flames or sparks. Avoid prolonged skin contact and breathing of vapor mist. Ground all containers when pouring.

FOR INDUSTRIAL USE ONLY

The information contained herein is furnished without warranty of any kind. Users should consider these data only as supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers.

APPENDIX B

Calculations

(1) Basic Equation for VOC Emission Calculation

$$E = \sum_1^{n=i} u_i \times v_i \times 80 \text{ hrs/week} \times 52 \text{ weeks/year}$$

Where: U_i = utilization rate of material i
 V_i = percent VOC of material (by weight if available; otherwise, by volume)
 n = the number of different materials sprayed in this emission source

(2) Calculations

Substance $i = 1$, Spray Enamel

$$\begin{aligned} E_1 &= 0.39 \text{ lb/hr} \times 0.978 \times 80 \text{ hrs/week} \times 52 \text{ weeks/year} \\ &= 1,586.7 \text{ lbs/year} \end{aligned}$$

Substance $i = 2$, Amer-Flint II

$$\begin{aligned} E_2 &= 3.93 \text{ lb/hr} \times 0.60 \times 80 \text{ hrs/week} \times 52 \text{ weeks/year} \\ &= 9809.3 \text{ lbs/year} \end{aligned}$$

Substance $i = 3$, Epoxy Primer

$$\begin{aligned} E_3 &= 4.58 \text{ lb/hr} \times 0.70 \times 80 \text{ hrs/week} \times 52 \text{ weeks/year} \\ &= 13,337.0 \text{ lbs/year} \end{aligned}$$

Total Emissions E (Potential and Actual)

$$\begin{aligned} E &= \sum_1^3 E_i = 1586.7 \text{ lb/year} + 9809.3 \text{ lb/year} + 13,337.0 \text{ lb/year} \\ &= 24,733 \text{ lb/year} = 12.4 \text{ tons/year} \\ &= 5.95 \text{ lb/year (80 hr/week)} \end{aligned}$$

ATTACHMENT C

Paint Spray Booth Specifications

PAINT ARRESTOR FILTER SPRAY BOOTH

Floor-Type and Conveyor-Type

Paint Arrestor Spray Booths

Binks Paint Arrestor Floor-Type Spray Booths efficiently remove overspray and equalize air flow through the work area. The paint arrestor filters trap airborne paint particles and minimize paint accumulation on the exhaust system fan and stack.

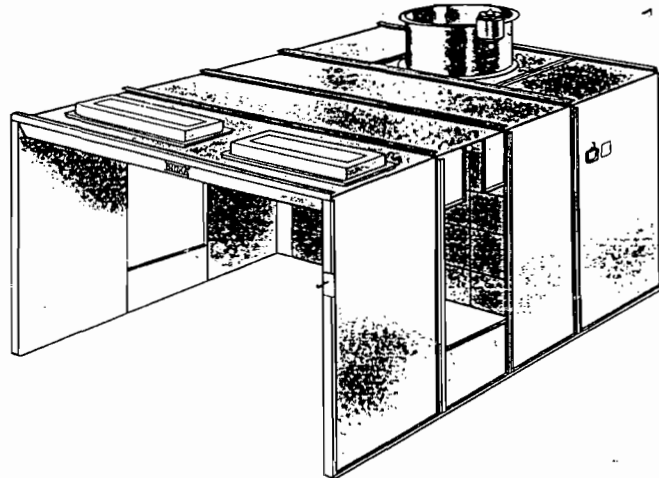
Construction Features

Built of 18 gauge galvanized panels with exterior flanges, the booth is easily assembled by two men. Interior of booth is smooth.

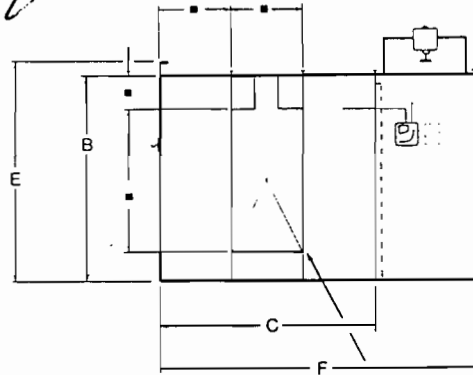
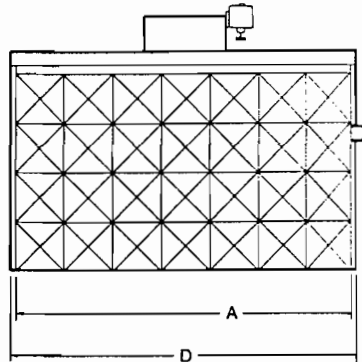
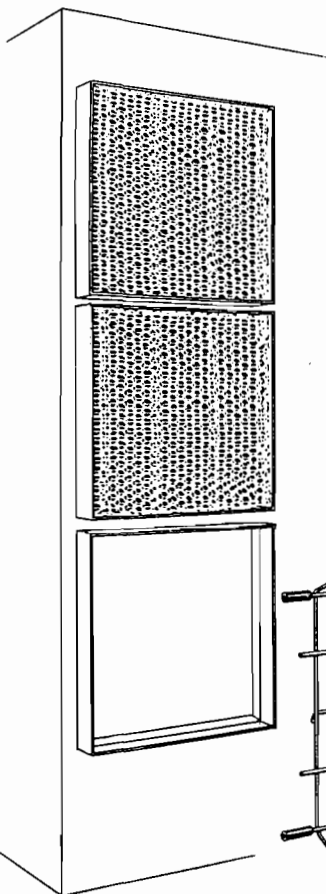
The filter bank is preassembled and shipped in either one or two sections. Individual filter cells consist of two 20" x 20" x 1" Paint Arrestor filter pads. Filters are easily replaced. They have a Class 2 listing by Underwriters' Laboratories and are Factory Mutual approved.

Exhaust Unit & Lighting equipment for dry filter booths can be ordered separately or included in package models.

Paint Arrestor-Filter Booths are available in floor-type and conveyor models. Refer to appropriate chart for model selection.

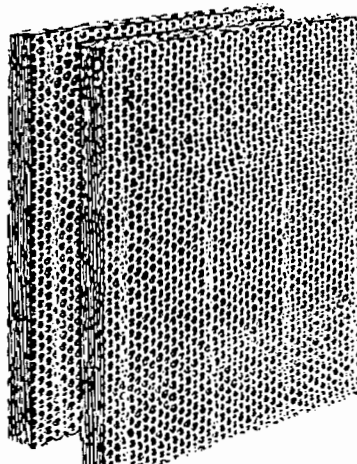


Paint booth will have filtered doors. P.D.



SIDE OPENING CONVEYOR BOOTH ONLY

■ When ordering please advise Binks of dimensions.



Paint Arrestor Filter Booths are available in floor-type and conveyor models. Refer to appropriate chart for model selection.

A double layer of one inch thick pads are used. Only one layer need be replaced at a time as most paint particles are caught in the first inch filter thickness.

7'-0" PAINT ARRESTOR FILTER BOOTH

125 FPM Min. Face Velocity, Floor-Type

Model Number	Work Dimensions			Overall Dimensions			No. of Filter Cells	Air Flow at .25" Water Col. SCFM	Fan and Motor			Qty. Windows & Lights	Shpg. Wt. Lbs.
	A	B	C	D	E	F			Model No.	Dia.	H.P.		
FF-4-7-T	4'-0"	7'-0"	4'-0"	4'-4"	7'-2"	6'-8"	8	3750	30-1620	18"	3/4	0	550
PFF-4-7-T												0	675
FF-5-7-T	5'-0"	7'-0"	4'-0"	5'-4"	7'-2"	6'-8"	12	4500	30-4200	24"	1/2	0	575
PFF-5-7-T												0	750
PFF-5-7-T-LH												1	840
FF-6-7-T	6'-0"	7'-0"	4'-0"	6'-4"	7'-2"	6'-8"	12	5600	30-4202	24"	3/4	0	660
PFF-6-7-T												0	850
PFF-6-7-T-LH												1	940
FF-8-7-T	7'-8"	7'-0"	6'-0"	8'-0"	7'-2"	8'-8"	16	7400	30-4206	24"	1 1/2	0	950
PFF-8-7-T												0	1150
PFF-8-7-T-LH												1	1240
FF-10-7-T	9'-8"	7'-0"	6'-0"	10'-0"	7'-2"	9'-8"	20	8800	30-4301	34"	1 1/2	0	1150
PFF-10-7-T												0	1450
PFF-10-7-T-LH												2	1630
FF-12-7-T	11'-8"	7'-0"	6'-0"	12'-0"	7'-6"	9'-8"	28	10600	30-4304	34"	2	0	1300
PFF-12-7-T												0	1600
PFF-12-7-T-LH												3	1870
FF-14-7-T	13'-8"	7'-0"	7'-6"	14'-8"	7'-8"	11'-2"	32	12500	30-4306	34"	3	0	1750
PFF-14-7-T												0	2050
PFF-14-7-T-LH												4	2450
FF-16-7-T	15'-8"	7'-0"	7'-6"	16'-8"	7'-10"	11'-2"	36	13800	30-4307	34"	3	0	1950
PFF-16-7-T												0	2250
PFF-16-7-T-LH												4	2650
FF-18-7-T	17'-8"	7'-0"	7'-6"	18'-8"	8'-0"	11'-2"	40	15400	30-4309	34"	5	0	2300
PFF-18-7-T												0	2600
PFF-18-7-T-LH												4	3000
FF-20-7-T	19'-8"	7'-0"	7'-6"	20'-8"	8'-0"	11'-8"	44	18000	30-4410	42"	5	0	2600
PFF-20-7-T												0	3000
PFF-20-7-T-LH												6	3540

8'-0" PAINT ARRESTOR FILTER BOOTH

125 FPM Min. Face Velocity, Floor-Type

Model Number	Work Dimensions			Overall Dimensions			No. of Filter Cells	Air Flow at .25" Water Col. SCFM	Fan and Motor			Qty. Windows & Lights	Shpg. Wt. Lbs.
	A	B	C	D	E	F			Model No.	Dia.	H.P.		
FF-4-8-T	4'-0"	8'-0"	4'-0"	4'-4"	8'-2"	6'-8"	8	4500	30-4200	24"	1/2	0	570
PFF-4-8-T												0	730
FF-5-8-T	5'-0"	8'-0"	4'-0"	5'-4"	8'-2"	6'-8"	12	5600	30-4202	24"	3/4	0	660
PFF-5-8-T												0	810
PFF-5-8-T-LH												1	900
FF-6-8-T	6'-0"	8'-0"	4'-0"	6'-4"	8'-2"	6'-8"	12	6200	30-4204	24"	1	0	750
PFF-6-8-T												0	930
PFF-6-8-T-LH												1	1020
FF-8-8-T	7'-8"	8'-0"	6'-0"	8'-0"	8'-2"	8'-8"	16	8000	30-4207	24"	2	0	1100
PFF-8-8-T												0	1400
PFF-8-8-T-LH												1	1490
FF-10-8-T	9'-8"	8'-0"	6'-0"	10'-0"	8'-2"	9'-8"	20	10000	30-4303	34"	1 1/2	0	1300
PFF-10-8-T												0	1600
PFF-10-8-T-LH												2	1780
FF-12-8-T	11'-8"	8'-0"	7'-6"	12'-0"	8'-6"	11'-2"	28	11700	30-4305	34"	2	0	1700
PFF-12-8-T												0	2000
PFF-12-8-T-LH												3	2270
FF-14-8-T	13'-8"	8'-0"	7'-6"	14'-8"	8'-8"	11'-2"	32	13800	30-4307	34"	3	0	1900
PFF-14-8-T												0	2200
PFF-14-8-T-LH												4	2600
FF-16-8-T	15'-8"	8'-0"	7'-6"	16'-8"	8'-10"	11'-2"	36	17000	30-4312	34"	5	0	2100
PFF-16-8-T												0	2400
PFF-16-8-T-LH												4	2810
FF-18-8-T	17'-8"	8'-0"	7'-6"	18'-8"	9'-0"	11'-2"	40	18000	30-4313	34"	7 1/2	0	2450
PFF-18-8-T												0	2750
PFF-18-8-T-LH												4	3150
FF-20-8-T	19'-8"	8'-0"	7'-6"	20'-8"	9'-0"	11'-8"	44	20300	30-4412	42"	5	0	2750
PFF-20-8-T												0	3150
PFF-20-8-T-LH												6	3690

◆ See pages 2 through 4 for Notes to Spray Booths.

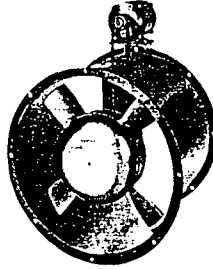
EXHAUST FANS

General Description of Binks Exhaust Fans

Binks highly efficient exhaust fans can be mounted in any position in the booth exhaust outlet or in the remote exhaust stack. (Motor is optional).

Construction

Binks belt-driven exhaust fans are precisely shafted and mounted in ball bearings. Their one piece constructions are non-sparking and highly efficient. Fan blades are balanced for maximum efficiency. Motors are mounted outside the duct on a base and



are adjustable for belt tension. "V" belt and fan pulley are enclosed in a dust- and vapor-tight housing so that hazardous fumes never contact motor or belts. Units are Factory Mutual Approved. When they are used with totally enclosed or explosion-proof motors, they meet the requirements of the Fire Underwriters. Fan performance ratings are in accordance with Standard Test Code for centrifugal and axial fans.

Model No. Double Mtg. Ring Fan	Motor H.P.	Fan Speed ■ (RPM)	Fan & Duct Size (Inches)	Fan Frame Height (Inches)	No. of Fan Blades	Fan Belts		Shipping Weight
						Qty.	Part No.	
30-1590	1/3	2590	12	11½	4	1	20-1165	60
30-1600	1/4	1750	18	11¾	6	1	20-1165	70
30-1610	1/2	2155	18	11¾	6	1	20-1129	70
30-1620	3/4	2285	18	11¾	6	1	20-1129	70
30-4200	1/2	1148	24	18½	4	1	20-5147	125
30-4201	3/4	1258	24	18½	4	1	20-5147	125
30-4202	3/4	1313	24	18½	4	1	20-5147	125
30-4204	1	1422	24	18½	4	1	20-5148	125
30-4206	1½	1641	24	18½	4	1	20-5148	125
30-4207	2	1750	24	18½	4	2	20-5148	130
30-4208	3	1859	24	18½	4	2	20-5149	130
30-4209	3	1914	24	18½	4	2	20-5149	130
30-4210	3	1969	24	18½	4	2	20-5149	130
30-4211	3	2023	24	18½	4	2	20-5149	130
30-4212	3	2078	24	18½	4	2	20-5149	130
30-4213	5	2188	24	18½	4	3	20-5149	135
30-4214	5	2297	24	18½	4	3	20-5149	135
30-4215	5	2406	24	18½	4	3	20-5149	135
30-4301	1½	774	34	23	4	2	20-5120	260
30-4302	1½	808	34	23	4	2	20-5120	260
30-4303	1½	841	34	23	4	2	20-5120	260
30-4304	2	875	34	23	4	2	20-5121	260
30-4305	2	942	34	23	4	2	20-5158	260
30-4306	3	1000	34	23	4	2	20-5158	260
30-4307	3	1077	34	23	4	2	20-5120	260
30-4308	5	1144	34	23	4	2	20-5120	260
30-4309	5	1178	34	23	4	2	20-5120	260
30-4310	5	1212	34	23	4	2	20-5121	260
30-4311	5	1245	34	23	4	2	20-5158	260
30-4312	5	1279	34	23	4	2	20-5158	260
30-4313	7½	1346	34	23	4	3	20-5121	275
30-4314	7½	1413	34	23	4	3	20-5158	275
30-4315	7½	1481	34	23	4	3	20-5158	275
30-4410	5	1000	42	24	6	2	20-5156	360
30-4411	5	1050	42	24	6	2	20-5156	360
30-4412	5	1100	42	24	6	2	20-5156	360
30-4413	5	1125	42	24	6	2	20-5156	360
30-4414	5	1150	42	24	6	2	20-5156	360
30-4415	5	1175	42	24	6	2	20-5157	360
30-4416	7½	1200	42	24	6	2	20-5157	370
30-4417	7½	1250	42	24	6	2	20-5157	370
30-4418	7½	1300	42	24	6	2	20-5157	370
30-4419	7½	1350	42	24	6	2	20-5157	370
30-4420	10	1375	42	24	6	2	20-5157	380
30-4421	10	1400	42	24	6	2	20-5157	380
30-1790	5	950	42	24	8	3	20-4224	310
30-1800	7½	1050	42	24	8	3	20-2383	310
30-1810	5	1150	48	24	6	2	20-3448	400
30-1820	7½	1300	48	24	6	3	20-3460	400
30-1830	10	1390	48	24	6	3	20-3460	400

■ Based on 1750 RPM motor speed.

HOW TO SIZE EXHAUST FANS FOR SPRAY BOOTHS:

Example: a dry-type spray booth with inside dimensions 15' wide by 7' high (Booth depth does not enter into the calculation).

1. Multiply 15' x 7'. This will come to 105 sq. ft., which is the booth face area.
2. Multiply the booth face area by the velocity desired. No less than 125 FPM should be multiplied times the booth face area. (Generally the FPM will be between 125 and

200). For this example, take the air flow through the booth at 125 FPM. 105 sq. ft. x 125 FPM = 13,125 CFM.

3. Look at the Air Flow and Sound Level Chart. Dry-type spray booths require a static pressure of .25". (Other types of booths run at higher static pressures). Look under the .25" pressure column. The nearest CFM greater than your calculation should always be chosen. This is 13,800, which corresponds to Fan Model 30-4307, therefore Model 30-4307 would be the correct fan to use.

AIR FLOW AND SOUND LEVEL CHART

Fan Model No.	CFM of Static Pressure (inches of water column)								SOUND AVG. DBA
	0	.25	.375	.50	.75	.90	1.10	1.30	
30-1590	1290	600							86
30-1600	3200	2500	1850						74
30-1610	4020	3500	3150						79
30-1620	4300	3750	3420						81
30-4200	5600	4500	3000						68
30-4201	6100	5200	4300						72
30-4202	6400	5600	4800						74
30-4204	6900	6200	5600	4700					78
30-4206	8000	7400	7000	6500	4700	3600			81
30-4207	8500	8000	7600	7200	5900	4500			82
30-4208	9100	8500	8200	7900	6800	5400	4200		83
30-4209	9300	8800	8500	8200	7200	6500	4500		83
30-4210	9600	9100	8800	8500	7600	7200	5300		84
30-4211	9900	9400	9100	8800	8000	7600	6300		84.5
30-4212	10100	9700	9400	9100	8400	8000	6700		85
30-4213	10700	10200	10000	9700	9100	9000	7800		85.5
30-4214	11200	10800	10600	10300	9700	9700	8400		86
30-4215	11800	11400	11100	10900	10400	10100	9500		87
30-4301	11000	8800							70
30-4302	11500	9400							71
30-4303	12000	10000	8100						72
30-4304	12400	10600	9100						73
30-4305	13300	11700	10600						74
30-4306	14200	12500	11700	10300					76
30-4307	15300	13800	13000	12200					78
30-4308	16200	14900	14200	13300					79
30-4309	16700	15400	14750	13900	11000				80
30-4310	17200	16000	15300	14500	12200				81
30-4311	17700	16400	15800	15100	13000				82
30-4312	18100	17000	16300	15700	14000	10800			83
30-4313	19100	18000	17400	16400	15300	12600	10500		84
30-4314	20000	19000	18400	17900	16500	13500	12600		85
30-4315	21000	20000	19500	18900	17700	15200	14700		87
30-4410	19800	18000	17000	15900	13400	11000			84
30-4411	20800	19000	18000	17000	14800	13200			84
30-4412	21800	20300	19300	18300	16200	14800	12000		85
30-4413	22300	20700	19900	18900	16900	15600	13100	10000	86
30-4414	22800	21200	20300	19500	17500	16200	14200	11250	86.5
30-4415	23300	21700	21000	20000	18200	17000	15000	12500	87
30-4416	23800	22300	21500	20600	18800	17800	15800	13200	87.5
30-4417	24800	23400	22600	21700	20100	18900	16800	15000	88
30-4418	25800	24400	23600	22900	21300	20300	18900	17500	89
30-4419	26800	25400	24700	24000	22500	21500	20000	18750	89.5
30-4420	27200	26000	25300	24500	23100	22200	21000	18750	90
30-4421	27800	26500	25800	25100	23600	22800	21500	20000	91
30-1790	27800	25200	23700	22000	15600	9500	6200		85
30-1800	30600	28400	27000	25200	21500	14000	10100		86
30-1810	32250	29500	27750	26000	22000	17000			90
30-1820	37250	34600	33200	32000	29000	25700	21000		92
30-1830	41250	38600	37300	36600	33200	30500	27250		93

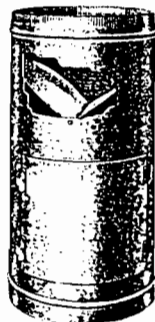
EXHAUST STACK

Accessories and Components

STANDARD EXHAUST



Binks exhaust stacks are fabricated from galvanized steel.



Exhaust Stacks with cleanout door and manual or non-motorized automatic damper.

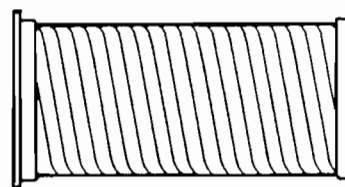
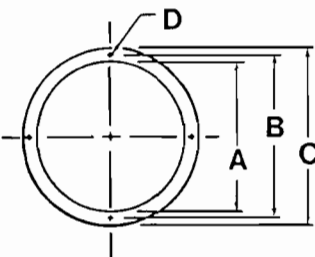
Model▲ Number	Style	Gauge	Diameter	Shpg. Wt. Lbs.
29-823	Standard Plain Exhaust Stacks	20	12"	35
29-1		20	18"	45
29-2		20	24"	60
29-3		18	34"	75
29-4		18	42"	85
29-335		18	48"	95
29-824	Access Door Only No Damper	20	12"	45
29-5		20	18"	53
29-6		20	24"	63
29-7		18	34"	73
29-8		18	42"	83
29-336		18	48"	93
29-826	Automatic Damper Designed for use in vertical position only.	20	12"	55
29-17		20	18"	60
29-18		20	24"	65
29-19		18	34"	80
29-20		18	42"	90
29-337		18	48"	95
29-825	Manual Damper with cleanout door. Designed for use in vertical or horizontal position.	20	12"	55
29-263		20	18"	60
29-264		20	24"	65
29-265		18	34"	80
29-266		18	42"	90
29-338		18	48"	95

▲Standard Length 36"

SPIRAL STACK

Spiral Exhaust Stack—with attached connector rings. Handling length up to 8'-0". Minimum length 4'-0".

Diameter	A	B	C	D	Gauge Steel	Wt./Ft. Lbs.
12"	11 ¹ / ₄ "	12 ³ / ₄ "	13 ³ / ₄ "	(4) 1/2"	20	10
18"	17 ³ / ₄ "	19 ¹ / ₄ "	20 ³ / ₄ "	(6) 1/2"	20	15
24"	23 ³ / ₄ "	25 ¹ / ₄ "	26 ³ / ₄ "	(6) 1/2"	20	20
34"	33 ³ / ₄ "	35 ¹ / ₄ "	36 ³ / ₄ "	(12) 1/2"	18	25
42"	41 ³ / ₄ "	43 ³ / ₄ "	45 ³ / ₄ "	(12) 1/2"	18	30
48"	47 ³ / ₄ "	49 ³ / ₄ "	51 ³ / ₄ "	(12) 1/2"	18	35



ACCESSORIES

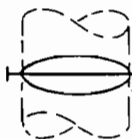
Standard Access Door

Provides access to fan blades. (Specify when ordering spiral stack).



Manual Damper

For use in horizontal and vertical position. Prevents rain, snow and drafts from entering spray booth. (Specify when ordering spiral stack).



Non-motorized Automatic Damper

Automatically prevents rain, snow and drafts from entering spray booth. (Specify when ordering spiral stack).



Model Number	Diameter	High x Wide
29-799	12"	12" x 12"
29-552	18", 24" 34", 42", 48"	12" x 18"

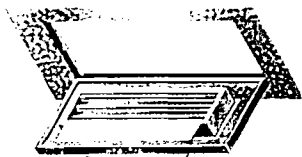
Model Number	Diameter	Shpg. Wt. Lbs.
29-801	12"	8
29-557	18"	10
29-558	24"	15
29-559	34"	20
29-560	42"	25
29-469	48"	30

Model Number	Diameter	Shpg. Wt. Lbs.
29-800	12"	8
29-553	18"	10
29-554	24"	15
29-555	34"	20
29-556	42"	25
29-470	48"	30

Binks lighting units are designed for exterior booth mounting only. The enclosed type fluorescent unit is UL listed for Class 1, Div. 2, Groups A, B, C & D hazardous locations. Mounting brackets are not required.

Inside Access Kit

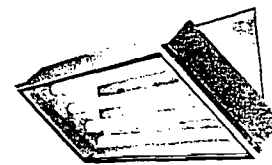
Model 29-1445 For installations that do not allow access to a fixture from outside the spray booth. Tight-fitting cover with hinged metal frame opens from inside booth for servicing and cleaning. Enclosed and gasketed type lights must be used with access kit to comply with U.S. codes. (Shown with light fixture, light fixture not included with kit—order glass and fixture separately.)



The explosion-proof units meet UL requirements for mounting in Class 1, Div. 1, Groups A, B, C & D hazard locations.

Mounting brackets are required for all explosion-proof, vapor tight incandescent and explosion-proof fluorescent fixtures.

Explosion-Proof



Standard Fluorescent

Incandescent Units					
Vapor Tight					
Dome Type For Over Head Lighting			Angle Type For Side & Front Lighting		
Model No.	Watts	Diameter	Model No.	Watts	Diameter
29-78	150	14"	29-82	200	12"
29-79	200	16"	29-83	300	14"
29-80	300	18"			

Mounting Brackets	
29-712	29-84



Fluorescent Units				
Enclosed-Type				
Model No.	Volts	Tubes*	Class 1, Div. 2	Shpg. Wt. Lbs.
29-1090	115	3	Enclosed and Gasketed 52" Lg x 14" W x 5" H	70
29-1091	277	3		
29-1094	115	4		
29-1095	277	4		

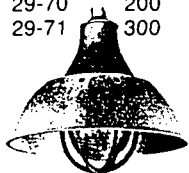
Mounting brackets not required for enclosed type.

Open-Type				
Model No.	Volts	Tubes*	General Purpose	Shpg. Wt. Lbs.
29-1092	115	3	For Use Where Dust Tight Equipment Not Required 52" Lg x 14" W x 5" H	30
29-1093	277	3		
29-1096	115	4		
29-1097	277	4		

Mounting brackets not required for open-type.

Explosion-Proof With Guard					
Dome Type For Over Head Lighting			Angle Type For Side & Front Lighting		
Model No.	Watts	Diameter	Model No.	Watts	Diameter
29-69	150	14"	29-74	150	12"
29-70	200	16"	29-75	200	16"
29-71	300	16"	29-76	300	16"

Mounting Brackets	
29-712	29-548



Explosion-Proof				
Model No.	Volts	Tubes*	Class 1, Div. 1/C & D	Shpg. Wt. Lbs.
29-792	115	2	54" Lg x 12" W x 10 1/2" H	70
29-762	277	2		
29-791	115	3	54" Lg x 18" W x 10 1/2" H	95
29-761	277	3		
29-760	115	4	54" Lg x 24" W x 10 1/2" H	105
29-763	277	4		

Mounting Brackets For Explosion-Proof Fluorescent Units
(Consult Binks for Application)

Swivel Type Top & Side Mounted	Fixed Type Front Mounted Only	Shpg. Wt.
29-348	29-793	15 lbs.

- Shipping Weight Vapor Units 12 Lbs.
- Shipping Weight Explosion-Proof Units 20 Lbs.
- * Bulbs Not Included.

- * Lamps not included. Purchase 40 watt lamps locally.
- ▲ Glass window units are required with open-type and Class 1, Div. 2 fluorescent units.

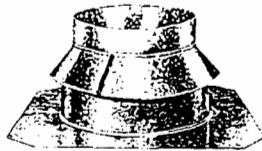
Glass Window Units For Lighting Fluorescent & Incandescent					
Types & Sizes	Shpg. Wt.	Rough Smooth Misco Wire		Clear Wire	
		Glass & Frame	Glass Only ◀	Glass & Frame	Glass Only ◀
Fluorescent 16" x 54" For Open & Enclosed Type	24 Lbs.	29-450	29-451	29-452	29-453
Incandescent 24" x 24"	18 Lbs.	29-90	29-676	29-951	29-671
Fluorescent 24" x 54" For Explosion-Proof Type	29 Lbs.	29-674	29-669	29-753	29-679

◀ Subtract 1" From Length & Width For Glass Dimensions.

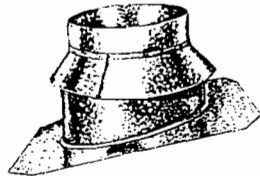
COMPONENTS

Flat type roof flange

Required on all vertical exhaust stacks passing through roof.



Flat type roof flange		Pitched roof flange		Dia.
Model Number	Shpg. Wt.	Model Number	Shpg. Wt.	
29-807	70 Lbs.	29-808	75 Lbs.	12"
29-29	80 Lbs.	29-33	95 Lbs.	18"
29-30	100 Lbs.	29-34	115 Lbs.	24"
29-31	130 Lbs.	29-35	150 Lbs.	34"
29-32	145 Lbs.	29-36	205 Lbs.	42"
29-344	160 Lbs.	29-345	260 Lbs.	48"



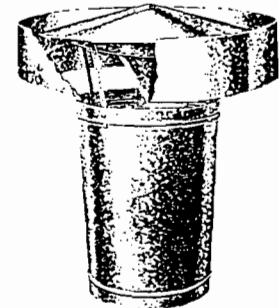
Pitched roof flange

Be sure to specify pitch of roof.



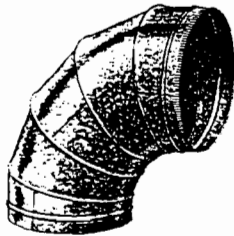
Weather canopy

Required for use with vertical exhaust stack on dry type and water wash booths where an offset elbow is used in vertical exhaust stack.



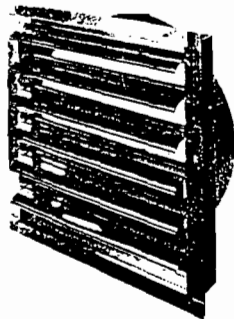
Weather canopy with rain guard

Required where weather canopy is exposed to hard driving rain and snow.



90° Elbow		45° Elbow		Dia.
Model Number	Shpg. Wt.	Model Number	Shpg. Wt.	
29-803	50 Lbs.	29-802	40 Lbs.	12"
29-25	60 Lbs.	29-21	43 Lbs.	18"
29-26	70 Lbs.	29-22	48 Lbs.	24"
29-27	100 Lbs.	29-23	63 Lbs.	34"
29-28	125 Lbs.	29-24	75 Lbs.	42"
29-334	145 Lbs.	29-333	82 Lbs.	48"

Weather canopy		Weather canopy with rain guard		
Model Number	Shpg. Wt.	Model Number	Shpg. Wt.	Dia.
29-805	170 Lbs.	29-806	180 Lbs.	12"
29-37	190 Lbs.	29-41	210 Lbs.	18"
29-38	250 Lbs.	29-42	300 Lbs.	24"
29-39	400 Lbs.	29-43	475 Lbs.	34"
29-40	550 Lbs.	29-44	650 Lbs.	42"
29-342	650 Lbs.	29-343	800 Lbs.	48"



Automatic Shutter

For exhausting through side of building. Non-motorized louvers built into a square housing. Includes square to round transition.

Model Number	Size	Shpg. Wt.
29-811	12" x 12"	30 Lbs.
29-49	18" x 18"	40 Lbs.
29-50	24" x 24"	70 Lbs.
29-51	34" x 34"	150 Lbs.
29-52	42" x 42"	200 Lbs.
29-471	48" x 48"	260 Lbs.



Combination automatic damper and weather canopy

Model Number	Dia.	Shpg. Wt.
29-804	12"	125 Lbs.
29-93	18"	150 Lbs.
29-94	24"	200 Lbs.
29-95	34"	300 Lbs.
29-96	42"	400 Lbs.
29-341	48"	500 Lbs.



Manual dampers for use in a spray booth

Close off booth from exhaust fan. Chain operated.

Model Number	Model Number	Duct Dia.	Shpg. Wt.
29-827		12"	25 Lbs.
29-9	29-13	18"	30 Lbs.
29-10	29-14	24"	35 Lbs.
29-11	29-15	34"	40 Lbs.
29-12	29-16	42"	45 Lbs.
29-339	29-340	48"	50 Lbs.

▲ for top mounted exhaust fan.
■ for back or side mounted exhaust fan.

ELECTRIC MOTORS & SWITCHES

FAN AND PUMP MOTORS

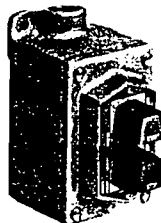
H.P.	ELEC. CURRENT	OPEN TYPE	TOTALLY ENCL.	EXP. PROOF
1/4	115-208-230/60/1	48-51322	48-51342	48-51362
	200/60/3	48-51021	48-51041	48-51061
	230/460/60/3	48-51521	48-51541	48-51561
1/3	115-208-230/60/1	48-53322	48-53342	48-53362
	200/60/3	48-53021	48-53041	48-53061
	230/460/60/3	48-53521	48-53541	48-53561
1/2	115-208-230/60/1	48-55322	48-55342	48-55362
	200/60/3	48-55021	48-55041	48-55061
	230/460/60/3	48-55521	48-55541	48-55561
3/4	115-208-230/60/1	48-57322	48-57342	48-57362
	200/60/3	48-57021	48-57041	48-57061
	230/460/60/3	48-57521	48-57541	48-57561
1	115-208-230/60/1	48-80322	48-80342	48-80362
	200/60/3	48-80021	48-80041	48-80061
	230/460/60/3	48-80521	48-80541	48-80561
1½	115-208-230/60/1	48-81322	48-81342	48-81362
	200/60/3	48-81021	48-81041	48-81061
	230/460/60/3	48-81521	48-81541	48-81561
2	115-208-230/60/1	48-82322	48-82342	48-82362
	200/60/3	48-82021	48-82041	48-82061
	230/460/60/3	48-82521	48-82541	48-82561
3	115-208-230/60/1	48-83322	48-83342	48-83362
	200/60/3	48-83021	48-83041	48-83061
	230/460/60/3	48-83521	48-83541	48-83561
5	208-230/60/1	48-85322	48-85342	48-85362
	200/60/3	48-85021	48-85041	48-85061
	230/460/60/3	48-85521	48-85541	48-85561
7½	200/60/3	48-87021	48-87041	48-87061
	230/460/60/3	48-87521	48-87541	48-87561
10	200/60/3	48-90021	48-90041	48-90061
	230/460/60/3	48-90521	48-90541	48-90561
15	200/60/3	48-91021	48-91041	48-91061
	230/460/60/3	48-91521	48-91541	48-91561
20	200/60/3	48-92021	48-92041	48-92061
	230/460/60/3	48-92521	48-92541	48-92561
25	200/60/3	48-93021	48-93041	48-93061
	230/460/60/3	48-93521	48-93541	48-93561

All motors are 1800 R.P.M.—1.0 service factor
 Hi-efficiency motors available at additional cost
 U Frame Motors available at additional cost
 375 Volt-50 cycle motors are special order
 Note—with 50 cycle motors fan R.P.M. and pump capacity must increase 20%.

SWITCHES & PUSH-BUTTON STATIONS

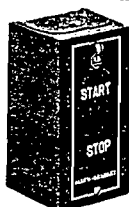
**Model No. 29-365
 EXPLOSION-PROOF
 PUSH-BUTTON STATION.**

This heavy duty, start-stop, front operated push-button can be mounted directly on spray booth. (used with motor starters)



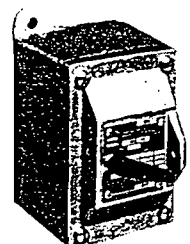
**Model No. 29-364 GENERAL
 PURPOSE PUSH-BUTTON STATION.**

NEMA Type 1 general purpose enclosure, start-stop with N.O.-N.C. contacts must be mounted in non-hazardous location min. 20 ft. from spray booth. (used with motor starters)



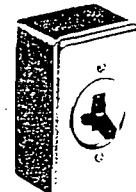
**Model No. 29-363
 EXPLOSION-PROOF SWITCH.**

This "On-Off" switch is for use in hazardous locations. It is front operated, one pole and will handle 120 volts AC—1000 watts (used with lights).



**Model No. 29-362
 GENERAL PURPOSE SWITCH.**

The "On-Off" switch will handle 120 volts AC—1000 watts. Must be located in a non-hazardous location (used with lights).



STARTERS & FUSIBLE DISCONNECTS

FUSIBLE DISCONNECT SWITCHES, MOTOR STARTERS & COMBINATION MOTOR STARTERS

H.P.	ELECTRIC CURRENT	FUSIBLE DISCONNECT SWITCHES TYPE 1	MAGNETIC MOTOR STARTERS			COMBINATION MOTOR STARTERS & DISCONNECTS—NEMA TYPE 12		
			TYPE 1	NEMA TYPE 12	TYPE 7, 9 & 3R	TYPE 1	TYPE 12	TYPE 7, 9 & 3R
1/4 to 3	200-230/60/3	29-83213	29-83211	29-83221	29-83231	29-83212	29-83222	29-83232
	460/60/3	29-83313	29-83311	29-83321	29-83331	29-83312	29-83322	29-83332
5	200-230/60/3	29-85213	29-85211	29-85221	29-85231	29-85212	29-85222	29-85232
	460/60/3	29-85313	29-85311	29-85321	29-85331	29-85312	29-85322	29-85332
7 1/2	200-230/60/3	29-87213	29-87211	29-87221	29-87231	29-87212	29-87222	29-87232
	460/60/3	29-87313	29-87311	29-87321	29-87331	29-87312	29-87322	29-87332
10	200-230/60/3	29-90213	29-90211	29-90221	29-90231	29-90212	29-90222	29-90232
	460/60/3	29-90313	29-90311	29-90321	29-90331	29-90312	29-90322	29-90332
15	200-230/60/3	29-91213	29-91211	29-91221	29-91231	29-91212	29-91222	29-91232
	460/60/3	29-91313	29-91311	29-91321	29-91331	29-91312	29-91322	29-91332
20	200-230/60/3	29-92213	29-92211	29-92221	29-92231	29-92212	29-92222	29-92232
	460/60/3	29-92313	29-92311	29-92321	29-92331	29-92312	29-92322	29-92332
25	200-230/60/3	29-93213	29-93211	29-93221	29-93231	29-93212	29-93222	29-93232
	460/60/3	29-93313	29-93311	29-93321	29-93331	29-93312	29-93322	29-93332

When ordering, please specify model number and give full details on equipment with which it will be used.

All starters are ordered with a single voltage with either 1 or 3 phase as specified in electric current column. I.E. 200/60/3 or 230/60/3.

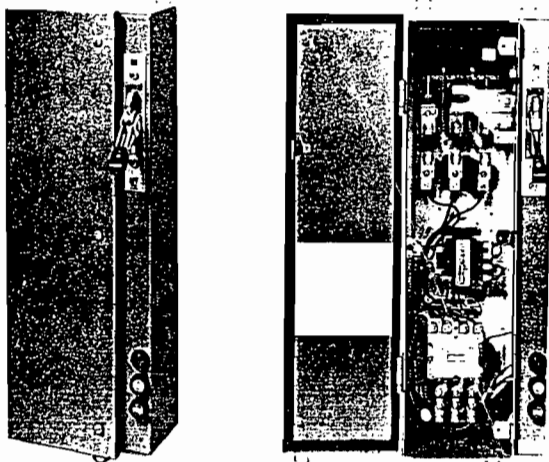
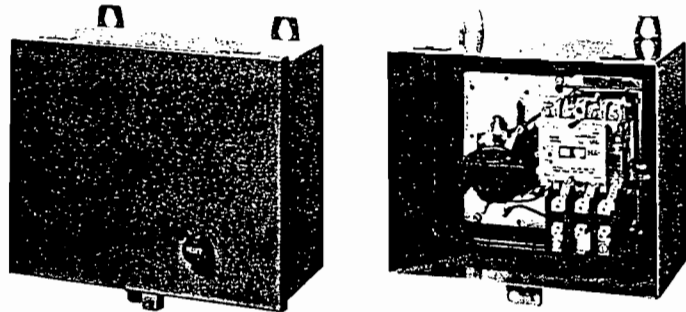
These starters have a 120 volt control transformer and required heating elements.

NEMA TYPE 1 General Purpose

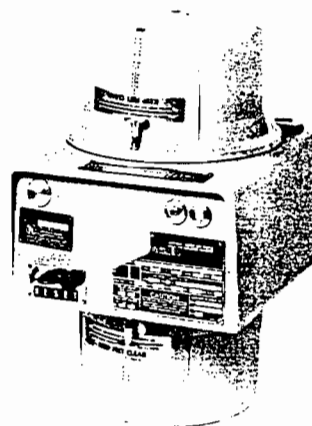
NEMA TYPE 12 Dust-Tight Industrial Enclosures

NEMA TYPE 7, 9, & 3R Class 1, Div. 1 & 2, Groups C & D
Class 2, Div. 1 & 2, Groups E, F, & G.

NEMA TYPE 1 MAGNETIC MOTOR STARTER



NEMA TYPE 12 COMBINATION MOTOR STARTER AND DISCONNECT



NEMA TYPE 7, 9 & 3R MAGNETIC MOTOR STARTER