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**Section I: LAER/BACT Determination for Application No. 320641**

**Basic Equipment or Process: Spray Booth**

**1. Basic Equipment**

1a. Manufacturer: Custom

1b. Type: Dry Filter

1c. Model: Custom

1d. Style: Bench Type

1e. Types(s) of Parts Coated

1f. Types of Coating/Adhesive/Solvent Used

Architectural aluminum extrusions

Architectural high performance coatings (primers & topcoats)

1g. Applicable AQMD Regulation XI Rules

1h. Cost

Rule 1107 - Coating of Metal Parts and Products \$250,000

Rule 1171 - Solvent Cleaning Operations

Source of Cost Data:

**2. Basic Equipment Rating/Size – Particulate Equipment**

2a. Size/Dimension/Capacity

2b. Blowers

1 - 10' W. x 16'-10" D. x 10' H.

recirculation blowers only

2 - 8'-4" W. x 16'-10" D. x 10' H.

3 - 14'-4" W. x 16"-10" D. x 10' H.

4 - 10'-4" W. x 16'-10" D. x 10' H.

5 - 5'-10" W. x 16'-10" D. x 10" H.

6 - 5'-10" W. x 16'-10" D. x 10" H.

2c. Total Flow Rate: 41389

2d. Filters

1 - 13@ 20" x 20" primary

1 @ 24' x 24" x 12" HEPA

2 - 8 @ 20" x 20" primary

1 @ 24" x 24" x 12" HEPA

3 - 19@ 20" x 20"

4 - 13 @ 20" x 20"

5 - 6 @ 20" x 20"

6 - 6 @ 20" x 20"

2e. Normal Operating Condition

10 hrs/day, 4 days/wk, 50 wks/yr

**3. Company Information**

3a. Name: Certified Enameling Inc.

3b. Address: 3342 Emery St.

City: Los Angeles

State: CA

Zip: 90023

3c. Contact Person: Tom Walsh

3d. Phone No.: (213) 264-4403

**4. Permit Information**

4a. Agency

4b. Agency Contact Person

South Coast AQMD

Wilma Wilson

4c. Phone No: (909) 396-2444

4d. Permit to Construct Information

P/C No.: 331055

Issuance Date: 9-17-97

4e. Start-Up Date: 7/97 (original P/C issued on 4-9-97 under A/N 320640, then modified under A/N 331055 with P/C-P/O issued 9-17-97 to add recirculation blowers in booths)

4f. Permit to Operate Information

P/O No. F9356

Issuance Date: 9-17-97

**5. Emission Information**

**5a. Permit Limit**

**5a2. BACT/LAER Determination**

**5a1. Permit Limit**

The BACT/LAER determination for this application is a direct-flame oxidizer.

420 lb/day VOC facility limit

**5b. Control Technology**

**5b1. Manufacturer/Supplier**

Wastech Controls & Engineering

21354 Nordhoff St., Suite 107

Chatsworth, CA 91311

**5b2. Description: Name of Control(s):**

This control system consists of a thermal oxidizer venting six spray booths and zone 1 of a drying oven. The spray booths have recirculation to reduce the airflow to the oxidizer. The oxidizer has a 8 MM Btu/hr natural gas fired burner.

**5b3. Control Equipment Permit Application Data**

P/C No .: 320641  
P/C Issuance Date: 4/9/97  
P/O No.: Pending  
P/O Issuance Date:

**5b5. Warranty**

Unknown

**5b7. Secondary Pollutant**

NOx 0.76 lb/hr, CO 0.15 lb/hr

**5b9. Limitations**

**5b11. Operating History**

Operating since 7/97

**5b13. Source Test Conditions/Performance Data**

The source test was performed at the following conditions:

Inlet flow rate: 8,768 dscfm VOC emissions to Control: 47.3 lb/hr VOC emissions to Atmosphere: 2.0 lb/hr

**5b4. Waste Air Flow to Control Equipment**

Flow Rate: 16000  
Actual VOC Loading: 405

Inlet Blower: 100 HP

**5b6. Primary Pollutant**

VOC

**5b8. Space Requirement**

Unknown

**5b10. Location of Prior Demonstration & Agency**

Facility: Unknown Contact Person: Unknown  
Phone Number: Unknown Agency: Unknown

Address: Unknown Permit Number: Unknown  
Contact Person: Unknown

**5b12. Source Test/Performance Data Analysis**

Date of Source Test: 12/1/97  
Capture Efficiency: 100.00%  
Destruction Efficiency: 96.00%  
Overall Efficiency: 96.00%

Performance Data: Not Applicable

**5c. Cost**

**5c1. Control Equipment Cost**

Capital: Unknown  
Installation: Unknown  
Capital + Installation: Unknown  
Source of Cost Data:

**5c2. Annual Operational/Maintenance Cost**

Unknown  
Source of Cost Data:

**5d. Demonstration of Compliance**

**5d1. Date of Field Evaluation**

**5d3. Compliance Demonstration**

Unknown

**5d2. AQMD Staff Performing Field Evaluation**

Engineer's Name: Wilma Wilson

Inspector's Name:

**5d4. Variance**

**5d5. No. of Violations**

1

No. of Variances: 1

Causes: Order of abatement – Rule 1107 & Rule 203. The violation cited in Item (5d5) is not due to the performance of the control technology; rather it is due to operation of the spray booth without a control technology.

**5d6. Frequency of Maintenance**

Unknown

**6. Comment**