
Section I: LAER/BACT Determination for Application No. 328007

Basic Equipment or Process: Spray Booth

1. Basic Equipment

- | | |
|--|---|
| 1a. Manufacturer: Binks, Devilbiss & Bleeker | 1b. Type: Dry filter |
| 1c. Model: Varies | 1d. Style: Bench & Floor Type |
| 1e. <u>Types(s) of Parts Coated</u> | 1f. <u>Types of Coating/Adhesive/Solvent Used</u> |

Aerospace fasteners	Barrier coatings
1g. <u>Applicable AQMD Regulation XI Rules</u>	1h. <u>Cost</u>

Rule 1124 - Aerospace Assembly and Component Manufacturing Operations	Not Known
---	-----------

Rule 1171 - Solvent Cleaning Operations	Source of Cost Data:
---	----------------------

2. Basic Equipment Rating/Size – Particulate Equipment

- | | |
|--------------------------------------|--------------------|
| 2a. <u>Size/Dimension/Capacity</u> | 2b. <u>Blowers</u> |
| 1 - 14'-0" W. x 18'-0" D. x 7'-0" H. | 1 - 1 @ 3 HP |
| 1A - 4'-0" W. x 5'-2" D. x 4' H. | 1A - 1 @ 3/4 HP |
| 2 - 14'-0" W. x 18'-0" D. x 7'-0" H. | 2 - 1 @ 3 HP |
| 2A - 5'-0" W. x 5'-6" D. x 3' H. | 2A - 1 @ 2 HP |
| 3 - 14'-0" W. x 18'-0" D. x 7'-0" H. | 3 - 1 @ 3 HP |
| 3A - 5'-0" W. x 5'-6" D. x 3" H. | 3A 1 @ 2 HP |
| 4 - 4'-5" W. x 5'-0" D. x 7'-2" H. | 4 - 1 @ 2 HP |
| 4A - 5'-0" W. x 5'-6" D. c 3'-0" H. | 4A 1 @ 1 HP |
| 5 - 12'-0" W. x 11'-0" D. x 6'-0" H. | 5 - 1 @ 2 HP |
| 2c. Total Flow Rate: 40000 | 2d. <u>Filters</u> |

Not Known

2e. Normal Operating Condition

16 hrs/day, 5.5 days/wk, 50 wks/yr

3. Company Information

3a. Name: Kal-Gard Coating & Mfg., E/M Corp.	3b. Address: 20751 Superior St.
--	---------------------------------

City: Chatsworth

State: CA

Zip: 91311

3c. Contact Person: Jennifer Holden

3d. Phone No.: (818) 894-3615

4. Permit Information

4a. Agency

4b. Agency Contact Person

South Coast AQMD

Rene Loof

4c. Phone No: (909) 396-2544

4d. Permit to Construct Information

P/C No.: 328050-55, 328058-59, 328061

Issuance Date: 5-28-97

4e. Start-Up Date: 9/97

4f. Permit to Operate Information

P/O No. F18621-25, F18628-29, F18631 & F18371

Issuance Date: 12/22/98, 1/5/99 & 1/6/99

5. Emission Information	
5a. Permit Limit	5a2. <u>BACT/LAER Determination</u>
5a1. <u>Permit Limit</u> 216 lb/day VOC facility limit	The BACT/LAER determination for this application is a combination of a concentrator and a thermal oxidizer.
5b. Control Technology	
5b1. <u>Manufacturer/Supplier</u> M & W	
5b2. Description: Name of Control(s): A zeolite concentrator is used with seven beds venting a permanent total enclosure with 9 spray booths and 5 ovens. The beds are desorbed with hot air and vented through a thermal oxidizer @ 1400 degrees F. The oxidizer has a 5 MM Btu/hr natural gas fired burner.	
5b3. <u>Control Equipment Permit Application Data</u>	5b4. <u>Waste Air Flow to Control Equipment</u>
P/C No .: 328007 P/C Issuance Date: 5/28/97 P/O No.: F18616 P/O Issuance Date: 1/5/99	Flow Rate: 40,000 Actual VOC Loading: 332 Inlet Blower: 200 H.P.
5b5. <u>Warranty</u> Unknown	5b6. <u>Primary Pollutant</u> VOC
5b7. <u>Secondary Pollutant</u>	

NOx 0.27 lb/hr, CO 0.16 lb/hr

5b9. Limitations

5b11. Operating History

Operating since 9/97

5b13. Source Test Conditions/Performance Data

The source test was performed at the following conditions:

Inlet flow rate: 13,533 dscfm VOC emissions to Control: 13.8 lb/hr VOC emissions to Atmosphere: 0.25 lb/hr

The results may contain errors due to stratification effects in the exhaust duct, however using the worst case scenario, the measured VOC destruction efficiency should be adjusted to 97%.

5b8. Space Requirement

Not Known

5b10. Location of Prior Demonstration & Agency

Facility: Not Known Contact Person: Not Known Phone Number: Not Known Agency: Not Known

Address: Not Known Permit Number: Not Known Contact Person: Not Known

5b12. Source Test/Performance Data Analysis

Date of Source Test: 3/1/97
Capture Efficiency: 100.00%
Destruction Efficiency: 97.00%
Overall Efficiency: 97.00%

Performance Data:

5c. Cost

5c1. Control Equipment Cost

Capital: \$447,961

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

5d5. No. of Violations

Unknown

5d2. AQMD Staff Performing Field Evaluation

Engineer's Name: Rene Loof

Inspector's Name:

5d4. Variance

No. of Variances: 0

Causes:

5d6. Frequency of Maintenance

Unknown

6. Comment

