
Section I: LAER/BACT Determination for P/C No. 300265

Basic Equipment or Process: Vapor Degreasers - Batch

1. Basic Equipment

1a. Manufacturer: Serec Corporation

1b. Type: Airless Vapor Degreaser

1c. Model: 484836

1d. Style: Evacuated Cleaning Chamber

1e. Types(s) of Parts Cleaned

1f. Types of Solvent Used

Castings, Stampings, and Deep Draw Metal Springs

PERC

1g. Applicable AQMD Regulation XI Rules

1h. Types of Soil Removed From Parts

Rule 1122 – Solvent Degreaser

Particles, oils, fingerprints, and other contaminants

1i. Cost

\$350,000

Source of Cost Data:

2. Basic Equipment Rating/Size – VOC Equipment

2a. Size/Dimension/Capacity

2b. Load

48 cubic feet

300 lb of Parts per Cycle

2c. Normal Operating Condition/Schedule

4-5 hr/day, 5 day/wk

3. Company Information

3a. Name: PG Imtech of California

3b. Address: 8424 Secura Way

City: Santa Fe Springs

State: CA

Zip: 90670

3c. Contact Person: Tim Sedory

3d. Phone No.: (562) 945-8943

4. Permit Information

4a. Agency

4b. Agency Contact Person

South Coast AQMD

Jackson Yoong

4c. Phone No: (909) 396-3125

4d. Permit to Construct Information

P/C No.: 300265

Issuance Date: 3/3/96

4e. Start-Up Date: 5/1/96

4f. Permit to Operate Information

5. Emission Information	
<p>5a. Permit Limit</p> <p>5a1. <u>Permit Limit</u></p> <p>PERC: 3 gal/month</p> <p>40 lb/month</p> <p>25 ppm at the out of carbon bed</p>	<p>5a2. <u>BACT/LAER Determination</u></p> <p>The BACT/LAER determination for this degreasing operation is an airless vapor degreaser. The permit limit shown in Item (5a1) is the maximum allowable PERC mass emission rate and concentrations from the degreasing operation. A continuous emissions monitoring at the outlet of the carbon bed record concentrations of PERC. (See Item 6 - Comment)</p>
<p>5b. Control Technology</p> <p>5b1. <u>Manufacturer/Supplier</u></p> <p>Serec Corporation</p> <p>P.O. Box 28129</p> <p>Providence, RI 02980</p> <p>(401) 421-6080</p> <p>5b2. Description: Name of Control(s):</p> <p>See the discussion on Description of Control Technology for P/C No. 296689 in Section I of the BACT Guidelines.</p>	
<p>5b3. <u>Control Equipment Permit Application Data</u></p> <p>P/C No. : Same as Basic Equip</p> <p>P/C Issuance Date:</p> <p>P/O No.: Same as Basic Equip</p> <p>P/O Issuance Date:</p> <p>5b5. <u>Warranty</u></p> <p>1 yr</p> <p>5b7. <u>Secondary Pollutant</u></p> <p>None</p> <p>5b9. <u>Limitations</u></p> <p>There are no known limitations to airless vapor</p>	<p>5b4. <u>Waste Air Flow to Control Equipment</u></p> <p>Flow Rate: 48 ft3/evacuation</p> <p>Actual VOC Loading: 0</p> <p>Inlet Blower: Not Applicable</p> <p>5b6. <u>Primary Pollutant</u></p> <p>This airless vapor degreaser emits perchloroethylene (PERC). PERC is classified as hazardous air pollutant (HAP) and an exempt solvent under AQMD Rule 102 – Definition of Terms.</p> <p>5b8. <u>Space Requirement</u></p>

<p>degreasers at this time.</p> <p>5b11. <u>Operating History</u> Operating Since May 1996</p> <p>5b13. <u>Source Test Conditions/Performance Data</u> The performance data were recorded normal loading conditions of the vapor degreaser (20 min/cycle and 11 cycles per day).</p>	<p>400 square feet</p> <p>5b10. <u>Location of Prior Demonstration & Agency Facility:</u> Not Known Contact Person: Phone Number: Agency:</p> <p>Address: Permit Number: Contact Person:</p> <p>5b12. <u>Source Test/Performance Data Analysis</u> Date of Source Test: Capture Efficiency: Destruction Efficiency: Overall Efficiency:</p> <p>Performance Data: The performance of the airless vapor degreaser is reflected in the make-up solvent logs and waste disposal records obtained from PG Imtech in 1998. These data demonstrated that PERC emissions are less than 30 lb per month.</p>
<p>5c. Cost</p> <p>5c1. <u>Control Equipment Cost</u> Capital: Not Known Installation: Not Known Capital + Installation: \$350,000 Source of Cost Data:</p>	<p>5c2. <u>Annual Operational/Maintenance Cost</u> \$5,500 Source of Cost Data:</p>
<p>5d. <u>Demonstration of Compliance</u></p> <p>5d1. <u>Date of Field Evaluation</u> 2/3/98</p> <p>5d3. <u>Compliance Demonstration</u> By SCAQMD Rule 109 Records and Waste Manifests</p> <p>5d5. <u>No. of Violations</u> None</p>	<p>5d2. <u>AQMD Staff Performing Field Evaluation</u> Engineer's Name: Xuan Vu Inspector's Name:</p> <p>5d4. <u>Variance</u> No. of Variances: None Causes: Not Applicable</p> <p>5d6. <u>Frequency of Maintenance</u> Not Known</p>
<p>6. Comment</p>	
<p>1. At the time of this BACT/LAER determination, PERC was still classified as a VOC.</p>	