From: Officer in Charge, Naval Medical Administrative Unit, Monterey
To: Occupational Safety and Health Manager (Code 223), Naval Postgraduate School, Monterey
Subj: MONITORING DATA RESULTS, NAVAL POSTGRADUATE SCHOOL, MONTEREY, ECE DEPARTMENT, LIQUID ELECTRICAL TAPE USE AND AEROSOL CAN PAINTING (ET-0162)

Ref: (a) Industrial Hygiene Field Operations Manual NEHC-TM6290.91-2, Rev B, of March 1999, Table E-1-A
(b) 29 CFR 1910.1025(b), and (c) (1) and (2)
(c) 29 CFR 1910.1025(d)(3)
(d) 29 CFR 1910.1025(d)(5)(I)

Encl. (1) Industrial Hygiene Air Sampling Survey Forms

1. Monitoring data was collected on 31 October 2001 to determine the chemical exposure of one worker using Star Brite Liquid Electrical Tape and painting with So Sure clear and blue lacquers and minimal usage of CSD Dope and Lacquer Thinner.

2. Results are as follows:

a. JOB: Coating/waterproofing electrical connections with Star Brite Liquid Electrical Tape

<table>
<thead>
<tr>
<th>AGENT</th>
<th>WORKER</th>
<th>TWA, ppm</th>
<th>STEL, ppm</th>
<th>CRITERION, ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene</td>
<td>Paul Buczynski</td>
<td>None</td>
<td>detected</td>
<td>TWA = 25, STEL = 125</td>
</tr>
<tr>
<td>Chloride</td>
<td></td>
<td>None</td>
<td>detected</td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td></td>
<td>None</td>
<td>detected</td>
<td>TWA = 100, STEL = 150</td>
</tr>
</tbody>
</table>

b. JOB: Spray painting with So Sure Clear 148100 Aerosol Lacquer and Blue Lacquer aerosol cans. The nozzle of the blue can had to be immersed in a small can of CSD Dope and Lacquer Thinner to unclog it prior to spraying.

<table>
<thead>
<tr>
<th>AGENT</th>
<th>WORKER</th>
<th>TWA, ppm</th>
<th>STEL, ppm</th>
<th>CRITERION, ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene</td>
<td>Paul Buczynski</td>
<td>0.122</td>
<td>3.90</td>
<td>TWA = 25, STEL = 125</td>
</tr>
<tr>
<td>Chloride</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td>Paul Buczynski</td>
<td>0.24</td>
<td>7.62</td>
<td>TWA = 100, STEL = 150</td>
</tr>
</tbody>
</table>
2. Results, traceable to Industrial Hygiene Survey ET-0162 and San Diego CIHL Laboratory Analysis Reports 6178 and 6180, indicate that the exposure concentrations for toluene and methylene chloride are below the Permissible Exposure Limits (PELs) - Time Weighted Average (TWA) and Short Term Exposure Limit (STEL), and below the Action Levels (ALs), outlined in references (a) and (b).

3. No problems or deficiencies were noted during the operation. No further monitoring of this job is required per reference (c) unless procedures change; in this case, contact the industrial hygienist at 831-656-3466 to schedule the required remonitoring. Enrollment in special medical surveillance programs or use of respirators for performance of either of these jobs are unnecessary based on these monitoring results.

4. Paul Buczynski must be given a copy of this memo within 15 working days of its receipt by your office per reference (d).

5. Copies of the sampling forms are provided as enclosure (1).

6. For further information or clarification, please contact Eric Thurston at COMM 831-656-3466, e-mail sethurst@nps.navy.mil.

S.E. THURSTON
By direction