### Vibration History

**Date:** 2-20-75  
**Machine:** Main Motor  
**Location:** 8 ft.  
**Name:** PEPC  
**Instrument Model:** 330  
**SN:**  
**Operator:**  

**Legend**
- **SYM:** Identifies
- **→:** Pickup Point
- **X:** Plain Bearing
- **Ø:** Ball Bearing
- **⊥:** Coupling

---

**Table:**

<table>
<thead>
<tr>
<th>Pickup Position</th>
<th>Filter Out</th>
<th>Filter In</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MILS</td>
<td>CPM</td>
</tr>
<tr>
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<td>0.35</td>
<td>900</td>
</tr>
<tr>
<td>B</td>
<td>0.28</td>
<td>900</td>
</tr>
<tr>
<td>C</td>
<td>0.17</td>
<td>800</td>
</tr>
<tr>
<td>D</td>
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<td>1400</td>
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<tr>
<td>E</td>
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<td>34</td>
</tr>
<tr>
<td>F</td>
<td>0.27</td>
<td>22</td>
</tr>
</tbody>
</table>

**Data Taken:** 4-13-72 @ 700 RPM

**Motor Coupled To Fan**

1 MIL = .001 inch P-P

**Motor: 25,500 HP**

**RPM:** 840 RPM

**Machinet Sketch:**

- **Tunnel:** 117
- **2 Atmos.**
- **Motor:** 12 300 RPM

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GENERAL MACHINERY
VIBRATION SEVERITY CHART

For use as a GUIDE in judging vibration as a warning of impending trouble.

VIBRATION FREQUENCY - CPM

VALUES SHOWN ARE FOR FILTERED READINGS TAKEN ON THE MACHINE STRUCTURE OR BEARING CAP.

VIBRATION DISPLACEMENT - MILS - PEAK-TO-PEAK

VERYSMOOTH
EXCELLENT SMOOTH
VERY SMOOTH
Slightly Rough
Fair Rough
Rough
Very Rough

Vibration Velocity, in/Sec. - Peak

.0592 in/sec
.0188 in/sec
.0058 in/sec
.0049 in/sec
.003 in/sec
.0015 in/sec
.0006 in/sec
.0002 in/sec
.0001 in/sec

#305D

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