Below are the results of the recent Hall A target post run survey along with the survey performed on the new solid target for the E05-110 run. A +X is beam left from ideal target centerline, a +Y is above, and a +Z is downstream. A +pitch is counter clockwise looking from the beam right, a +yaw is ccw from above, and a +roll is cw looking from upstream. Values are in millimeters and degrees. The coordinates for the new solid targets are calculated to the center of each target foil.

**Note:** There is a considerable difference between the current locations of the target cells and the previous locations prior to the run on Oct 25, 2007 (DT # A1133).

## POST RUN SURVEY

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>Z</th>
<th>X</th>
<th>Y</th>
<th>Yaw</th>
<th>Pitch</th>
<th>Roll</th>
</tr>
</thead>
<tbody>
<tr>
<td>Racetrack tgt</td>
<td>2.04</td>
<td>3.29</td>
<td>-1.66</td>
<td>0.01°</td>
<td>0.10°</td>
<td>0.13°</td>
</tr>
<tr>
<td>L2 Target block (top):</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>L2 Top cell CL</td>
<td>1.64</td>
<td>4.32</td>
<td>-1.70</td>
<td>-0.22°</td>
<td>0.07°</td>
<td></td>
</tr>
<tr>
<td>L2 Bot. cell CL</td>
<td>1.78</td>
<td>5.11</td>
<td>-1.71</td>
<td>-0.14°</td>
<td>0.07°</td>
<td></td>
</tr>
<tr>
<td>L3 Target block (bot):</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>L3 Top cell CL</td>
<td>2.30</td>
<td>5.07</td>
<td>-1.13</td>
<td>-0.36°</td>
<td>0.22°</td>
<td></td>
</tr>
<tr>
<td>L3 Bot. cell CL</td>
<td>2.65</td>
<td>5.40</td>
<td>-1.59</td>
<td>-0.12°</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top lower solid target</td>
<td></td>
<td></td>
<td></td>
<td>-51.65°</td>
<td>-0.03°</td>
<td></td>
</tr>
<tr>
<td>Bot lower solid target</td>
<td></td>
<td></td>
<td></td>
<td>48.60°</td>
<td>0.38°</td>
<td></td>
</tr>
</tbody>
</table>

## NEW SOLID TARGET

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>Z</th>
<th>X</th>
<th>Y</th>
<th>Yaw</th>
<th>Pitch</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1 (Top)</td>
<td>1.71</td>
<td>-0.02</td>
<td>-0.24</td>
<td>-0.33°</td>
<td>-0.14°</td>
</tr>
<tr>
<td>S2</td>
<td>0.78</td>
<td>-2.25</td>
<td>-0.12</td>
<td>-30.38°</td>
<td>-0.43°</td>
</tr>
<tr>
<td>S3</td>
<td>0.89</td>
<td>-2.07</td>
<td>-0.10</td>
<td>-30.36°</td>
<td>-0.43°</td>
</tr>
<tr>
<td>S4 (Bot)</td>
<td>0.79</td>
<td>-1.63</td>
<td>-0.16</td>
<td>-30.44°</td>
<td>-0.50°</td>
</tr>
</tbody>
</table>