# *Jefferson Lab Alignment Group*

## Data Transmittal

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| **TO:** J.P. Chen, J. LeRose | | **DATE :** | Jan 6, 2003 |
| **FROM:** James Dahlberg | **Checked:** | # | DT_A833r |

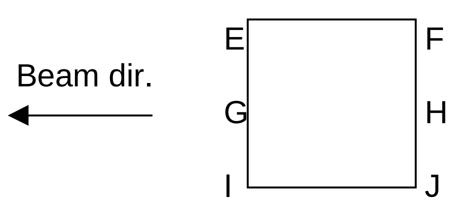
**Details:**

Below are the results of the Hall A He3 target ladder and compass survey performed on December 10th and 11th, 2002. The deltas shown for the target ladder represent the location (in mm) of the target with respect to the ideal position (not the movement). A positive X indicates that the point is located to the beam left *(not beam right as originally reported)*, positive Y is up, and positive Z is downstream. The compass angle deltas are offsets from the magnet field direction, (in degrees), which is based on the incoming beam line. They are listed sequentially as surveyed in the field. CW is a rotation clockwise looking from above.

**TARGET MEASUREMENTS**

| SURVEY FIDUCIAL | Del Z | Del X | Del Y |
|---|---|---|---|
| ATGLADE | -0.53 | -0.62 | -0.92 |
| ATGLADF | -0.36 | 0.65 | -1.75 |
| ATGLADG | -0.02 | 0.53 | 0.45 |
| ATGLADH | -0.33 | -0.43 | -0.37 |
| ATGLADI | 0.38 | -0.02 | -2.43 |
| ATGLADJ | 0.19 | 0.16 | -2.50 |

TARGET LADDER FRAME




**COMPASS MEASUREMENTS**

| TARGET | COMPASS ORIENTATION | Delta |
|---|---|---|
| 1 | parallel to beam | 0.1184 ccw |
| 2 | parallel to beam | 0.2524 ccw |
| 3 | perpendicular to beam | 0.0310 cw |
| 4 | perpendicular to beam | 0.3003 ccw |
| 5(repeat of 2) | parallel to beam | 0.2682 ccw |