



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** C. Dutta, J.P. Chen, J. LeRose

**DATE:** 06 Feb 2009

**FROM:** J. Dahlberg

**Checked:**

**# :** A1218

**DETAILS:**

DATA: Inspection\HallA\He3compass\090206a

Below are the results of the Hall A He3 coil field mapping survey carried out on Feb 5, 2009. A gravity based coordinate system is centered on the ideal Hall A target position with a +X to the beam left, a +Z downstream, and a +Y up. The horizontal compass coordinates are to the top of the iron compass rod. Values are in millimeters and degrees. A + yaw angle is counter clockwise looking from above.

**Horizontal compass measurements.**

<b>LOCATION</b>	<b>Z</b>	<b>X</b>	<b>Y</b>	<b>YAW</b>
0 US	-229.15	-8.86	0.01	
0 DS	227.80	-3.58	1.92	
0 CL	-0.68	-6.22	0.97	+0.6623 °
90 BL	0.39	222.50	1.56	
90 BR	-2.05	-234.54	-0.15	
90 CL	-0.83	-6.02	0.70	-0.3069 °
180 US	-228.61	5.90	0.64	
180 DS	228.26	4.46	0.50	
180 CL	-0.17	5.18	0.57	-0.1801 °
270 BL	-5.35	233.64	0.11	
270 BR	5.22	-223.43	1.79	
270 CL	-0.07	5.10	0.95	+1.3241 °