Jefferson Lab Alignment Group DATA TRANSMITTAL

TO: J. P. Chen, J. LeRose, Kathy McCormick DATE: 6 August, 2001

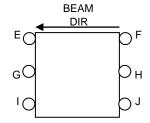
FROM: Steve Hardisty Checked: #: A687

DETAILS:

Below are the results of the Hall A compass and He3 target ladder alignment performed on August 1st and 2nd, 2001. The numbers shown for the target ladder represent the amount the survey target would have to move (in mm) to be in the ideal location. A negative X is a movement to the beam right, positive Y is up, and positive Z is downstream.

The compass angle deltas are offsets from the magnet field direction which is based on the incoming beam line. The 100 series are with the compass parallel to beam, and the 200 series are perpendicular to beam. They are listed sequentially as surveyed in the field. CW is a rotation clockwise looking from above.

TARGET	DEL Z	DEL X	DEL Y	
ATGLADE	- 0.37	1.80	3.60	
ATGLADF	- 0.26	1.15	1.40	
ATGLADG	0.25	-0.74	1.04	
ATGLADH	0.48	-0.66	-0.08	
ATGLADI	0.11	-0.14	3.95	
ATGLADJ	-0.19	-0.57	1.57	



COMPASS MEASUREMENTS

Spectrometers at 45 deg. Spectrometers at 45 deg.	pectrometers at 17 deg.	
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TARGET PT.	COMPASS ANGLE Δ	COMPASS ANGLE Δ
100-101	0.0625 ccw	0.4490 ccw
102-103	0.0386 ccw	0.2860 ccw
104-105	0.5310 cw	0.5282 ccw
106-107	0.2882 cw	0.0246 cw
108-109	0.2719 cw	0.0574 ccw
110-111		0.1660 cw
200-201	0.5927 cw	0.6573 cw
202-203	0.5735 cw	0.5112 cw
204-205	0.5743 cw	1.1772 cw
206-207	0.2852 cw	0.0164 cw
208-209	0.2776 cw	1.0308 cw
210-211		0.0850 ccw
212-213		0.0973 ccw
214-215		0.5115 ccw
216-217		0.4934 ccw