



Jefferson Lab Alignment Group

Data Transmittal

TO: C. Kieth

DATE: 02 May 2012

FROM: J. Dahlberg

Checked:

: A1451

DETAILS:

Data: 2B\Halla\G2p\120223a, 120418b

Below are the results of the G2p target coil survey carried out on Feb 22nd, 2012 along with the magnet field measurements carried out on April 18th. The target coil values are based on a right handed coordinate system centered on the ideal Hall A target center. A +Z is downstream, a +X is to the beam left, and a +Y is up. A +yaw value is counter clockwise looking from above, a +pitch is ccw looking from the beam right, and a +roll is ccw looking from the upstream.

TARGET CAN LOCATION

G2P00 (0 deg)

Delta (mm) 0.319 0.094 -0.346 (beam following ZXY)

Delta (deg) 0.01708 0.06446 0.13579 (YawPitchRoll)

G2P06 (6 deg)

Delta (mm) 0.170 0.156 -0.486 (beam following ZXY)

Delta (deg) -0.09935 0.04813 0.12892 (YawPitchRoll)

G2P90 (90 deg)

Delta (mm) 0.050 0.001 -0.276 (beam following ZXY)

Delta (deg) -0.03156 0.00172 0.01490 (YawPitchRoll)

COMPASS FIELD MEASUREMENTS

INITIAL FIELD DIRECTION

- 1) 5.6640
- 2) 5.6073
- 3) 5.6287
- 4) 5.6127
- 5) 5.6106

FIELD REVERSED

- 1) 5.6167
- 2) 5.6424
- 3) 5.6374
- 4) 5.6561
- 5) 5.6283