



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** J. Fischer, O. Pastor

**DATE:** 27 Jan 2014

**FROM:** Kelly Tremblay

**Checked:**

**# :** B1540

**DETAILS:**

data : inspection\hallb\shielding plates\140108A

The shielding plates for the Hall B Torus magnet were measured January 14<sup>th</sup>, 2014. Listed below are the results for back panel C [ref dwg B00000-04-01-1225 revB]. The table's columns below are as follows:

Name – name for the circle / bolt hole measured referenced to the plot at the bottom

dVec – sum of the error found versus design

dRad – difference in the radius found versus design

dX – difference in X coordinate (design – found)

dY – difference in Y coordinate (design – found)

dZ – difference in height (design – found) for points on bent plane.

Units are millimeters. Bent section data follows the Sketch on final page.

Ideal	dVec	dRad	dX	dY	d height
ci_bc1	0.07	-0.03	-0.05	0.06	
ci_bc2	0.08	-0.04	-0.07	0.04	
ci_bc3	0.09	-0.03	-0.08	0.04	
ci_bc4	0.09	-0.03	-0.09	0.03	
ci_bc5	0.10	-0.03	-0.10	0.02	
ci_bc6	0.10	-0.04	-0.10	0.01	
ci_bc7	0.10	-0.03	-0.10	-0.01	
ci_bc8	0.13	-0.04	-0.08	0.11	
ci_bc9	0.12	-0.03	-0.08	0.10	
ci_bc10	0.15	-0.03	-0.10	0.11	
ci_bc11	0.13	-0.04	-0.10	0.08	
ci_bc12	0.14	-0.04	-0.12	0.07	
ci_bc13	0.10	-0.03	-0.10	0.04	
ci_bc14	0.08	-0.03	-0.05	0.06	
ci_bc15	0.12	-0.03	-0.07	0.10	
ci_bc16	0.10	-0.02	0.02	-0.09	
ci_bc17	0.11	-0.01	0.11	-0.02	
ci_bc18	0.08	-0.02	-0.08	-0.02	
ci_bc19	0.09	2.12	-0.09	0.01	-4.17
ci_bc20	0.11	2.12	-0.10	-0.04	-2.98

The angle formed by the bent and main plane was found to be 59.664 degrees.

The coordinates calculated from where the intersection of the two planes occurred are:

Point	X[mm]	Y[mm]
1	1603.63	0.00
2	1488.53	287.98

