



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** M. Bevins, Y. Roblin, A. DiPettie

**DATE:** 31 Jan 2014

**FROM:** Kelly Tremblay

**Checked:**

**# :** L1546

**DETAILS:**

data: step2a\bsy\1c\_12\140131A

On January 31, 2014, quads MQA1C17, MQA1C18, MQR1C19 and MQR1C20 were aligned. Quads 1C17/1C18 were set to tolerance. Quads 1C19/1C20 were set for X and Y positions but were found to be downstream in the Z direction [see bfs Z column]. The results below show the ideal and found coordinates [meters]. Additionally the beam following coordinates [bfs] are shown in millimeters. For the bfs coordinates, a +Z is downstream, +X is to the beam left, +Y is up vertically.

Quad	Ideal (Dimad) coordinates [ meters]			Found Coordinates [ meters]			Beam Following Coordinates [ mm ]		
	X Ideal[m]	Y Ideal [m]	Z Ideal [m]	X Fnd [m]	Y Fnd [m]	Z Fnd [m]	bfs X [mm]	bfs Y [mm]	bfs Z [mm]
MQR1C19	-59.15208	100.02200	-358.89484	-59.13408	100.02219	-358.91832	0.01	0.19	29.59
MQR1C20	-58.66508	100.02200	-359.52953	-58.64752	100.02206	-359.55240	-0.01	0.06	28.83

PRELIMINARY