Jefferson Lab Alignment Group

Data Transmittal

TO: Dave Douglas		**DATE:** 08 Nov 2012
FROM: Kelly Tremblay	**Checked:** cjc	**# :** F1484

DETAILS:

data: step2b\fel\fel1\121107a

Three quads were located in the 1F region of the FEL on November 7th, 2012. The results of this survey are shown below as the as-found deltas from the ideals. The magnets were then aligned to their ideal locations.

The ideal coordinates for the quads are shown based on the FEL coordinate system (meters) as X, Y, and Z. The as-found deltas, dx, dy, and dz are shown in the beam following system in millimeters, as distances from the ideals. A +dx is to the beam left, a +dy is up and a +dz is downstream,. 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.

	Ideal Coordinates (meters)			As-Found Deltas from Ideals (millimeters)			As-Found angular Deltas from Ideals (degrees)		
	x	y	z	dx	dy	dz	d yaw	d pitch	d roll
QX1F4A	20.00000	105.00000	59.07400	0.06	0.05	0.29	0.0731	0.0430	0.0370
QX1F4B	20.00000	105.00000	58.55000	-0.15	-0.16	0.32	-0.0868	-0.0129	0.0183
QX1F4C	20.00000	105.00000	58.02600	-0.58	-0.16	0.23	0.0178	-0.0020	-0.0576