Jefferson Lab Alignment Group

Data Transmittal

TO: R. Kazimi, J. Grames		**DATE:** 05 Jun 2013
FROM: Kelly Tremblay	**Checked:**	**# :** L1510

DETAILS: data : align\calcs\inj

The data shown below is the proposed location for the 45 MeV spectrometer dipole, magnet MBF4D01. The magnet has a long chord length of 0.2000 meters which does not change. The bending angle changes from 20.0º to 25.0º. The 6 Gev information is shown for reference.

Entrance refers to the beam entrance, Mag. Cent. is the center of the arc that the beam forms through the magnet, exit is the beam exit, and point intersect refers to the point that the tangents create at their intersection. Units are meters except for the reference angle which are expressed as decimal degrees.

12 Gev Location					6 Gev Location		
	X	Y	Z		X	Y	Z
Entrance	80.6000	100.0000	-214.5530		80.6000	100.0000	-209.6815
Mag. Cent	80.5890	100.0000	-214.4530		80.5913	100.0000	-209.5815
Exit	80.5567	100.0000	-214.3577		80.5653	100.0000	-209.4846
Point Intersect	80.6000	100.0000	-214.4506		80.6000	100.0000	-209.5800
Rad	0.46206				Rad	0.57592	
Angle	25.000º				Angle	20.000º	