



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** B.Miller, S. Stepanyan

**DATE:** 07 Jun 2018

**FROM:** Kelly Tremblay

**Checked:** SEH

**# :** B1866

**DETAILS:**

data: step2b\hallb\12gfwcdar\180111a

The Hall B forward carriage was surveyed on January 11<sup>th</sup>, 2018. This transmittal reports that position relative to the designed location. The first set of coordinates give the location of the forward carriage relative to the CEBAF coordinate system (meters). The second set gives the ideal location of the carriage relative to the 12GeV target (meters). The final set of coordinates give the beam following found location (millimeters/decimal degrees)°.

The negative dx value indicates the carriage is found to the beam right; positive dy above design; positive dz downstream from design. Positive yaw is counter clockwise about the y axis; Negative pitch is counter clockwise about the x axis ; Negative roll is counter clockwise about the z axis.

Ideal forward carriage relative to CEBAF						
	x[m]	y[m]	z[m]			
Cebaf	-80.60000	103.35526	-406.75094			
Ideal forward carriage relative to 12GeV Target						
	x[mm]	y[mm]	z[mm]			
To 12GeV	0.00	0.00	7929.41			
Beam Following Location relative to ideal						
	dx[mm]	dy[mm]	dz[mm]	yaw°	pitch°	roll°
found	-2.33	0.479	56.426	0.06503	-0.0149	-0.00401