



# Jefferson Lab Alignment Group

## Data Transmittal

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

**DATE:** 12/04/2019

**FROM:** Elena Balan

**Checked:** CG

**# :** B1954

**DETAILS:**

data: Step2B\HALLB\TARGET\191111A &  
Step2B\HALLB\Beampipe\191114A

The Hall B Target, IPM2H01 and IPH2H00 were surveyed on November 11<sup>th</sup>, and 14<sup>th</sup>, 2019. The results are below. The table shows the ideal coordinates in the CEBAF system (meters), the beam following system (BFS) in millimeters, beam following angular deltas and the As-found location in the Cebaf system.

The BFS data shows the as-found position as it follows the beam relative to the ideal position. In the BFS, a positive dx value is to the beam left looking downstream along beam from the ideal; a positive dy is higher vertically from ideal; A positive dz is downstream from ideal. The delta angle are shown in degrees and are the differences (found – ideal) from ideal.

CEBAF Coord Ideal			
	Z[m]	X[m]	Y[m]
<b>HB12TG</b>	-398.82153	-80.60000	103.35526

CEBAF Coord Found				Beam Following			BFS Angular [deg.]		
	Z[m]	X[m]	Y[m]	z[mm]	x[mm]	y[mm]	YAW	PITCH	ROLL
<b>HB12TG</b>	-398.79097	-80.59988	103.35536	-30.56	-0.12	0.10	-0.0218	0.0120	-0.0160
<b>IPH2H00</b>	-393.57617	-80.60004	103.35514		0.06	0.12			
<b>IPM2H01</b>	-392.61903	-80.59996	103.35492		-0.04	-0.34	0.0192	0.0221	-0.0083