



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** B. Miller, D. Carman

**DATE:** 18 Jan 2017

**FROM:** Kelly Tremblay

**Checked:**

**# :** B1764

**DETAILS:**

data:inspection\hallb\fwd carriage\170118a

The forward carriage was surveyed on January 18<sup>th</sup>, 2017. The as found positional data is shown below. The ideal values are the coordinates from machine center. The reference point used is the center of the hub / upstream side of the forward carriage. This position is centered about the x and y coordinates (80.000,100.35526) and 262.053" downstream of hall b reference center.

The deltas in the beam following coordinate system are shown. A negative dx means the location is to the beam right; negative dy means low, and a +z indicates the coordinate is downstream of the ideal location. Similarly, the angular deltas are the found rotations. A positive dYaw is the rotated counter clockwise from ideal about the Y axis; A negative pitch indicates a clockwise roll about the x axis; a negative roll indicates a clockwise rotation about the X axis.

	Ideal			Deltas Beam Following			Angular Deltas		
Position	X[m]	Y[m]	Z[m]	dx[mm]	dy[mm]	dz[mm]	dYaw	dPitch	dRoll
FWDCAR	-80.60000	103.35526	-406.75094	-2.480	0.199	52.256	0.0653	-0.0183	-0.0032