



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** T. Whitlatch

**DATE:** 21 Jul 2023

**FROM:** Elena Balan

**Checked:**

**# :** D2077

### DETAILS:

The Hall D Helium Target was aligned on the 5<sup>th</sup> of January, 2023. For the beam following coordinates, +dx is to the beam left from zero position looking downstream; -dy is the amount lower than the beamline; +dz is the amount downstream from the zero position. A + yaw angle is counterclockwise looking from above, a + pitch is counterclockwise from the beam right, and a + roll is clockwise looking from upstream.

Component	CEBAF Coord. System			Beam Following Coord. System			Angular Data [deg.]		
	X[m]	Y[m]	Z[m]	$\Delta X$ [mm]	$\Delta Y$ [mm]	$\Delta Z$ [mm]	Yaw	Pitch	Roll
HDHETAR	80.59997	104.70023	398.78994	-0.03	0.23	0.11	0.0118	0.0097	-0.0115
US_TAR_BP	80.6022	104.70021	394.11174	2.22	0.21				
US_MID_TAR_BP	80.6016	104.69889	391.92053	1.59	-1.11				
DS_BELLOWS_BP	390.995	80.60047	104.69979	0.47	-0.21				