



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** T. Whitlatch

**DATE:** 06/21/2022

**FROM:** Elena Balan

**Checked:** cg

**# :** D2039

**DETAILS:**

M:\align\DATA\Step2B\HallID\CPP\220223A

Below are presented the position of the 6 CPP wire chambers measured in February, 2022. The found coordinates are in the CEBAF coordinate system. The Beam Following coordinates are the amount offset from the design (ideal) location. The results are relative to a beam-following coordinate system; +X is left of beam, +Y is above beam, +Z is downstream. Angles are reported using the right-hand rule; +Pitch is a counter-clockwise rotation looking from left, +Yaw is a counter-clockwise rotation looking from above, +Roll is a counter-clock rotation looking from downstream.

Component	CEBAF Coord. System			Beam Following Coord. System			[deg.]		
	X[m]	Y[m]	Z[m]	$\Delta X$ [mm]	$\Delta Y$ [mm]	$\Delta Z$ [mm]	Yaw	Pitch	Roll
HDARWEN	80.60072	104.70030	406.25479	0.72	0.30	-15.65	0.0350	-0.0033	-0.0054
HDBILBO	80.60104	104.70021	406.41649	1.04	0.21	-14.97	0.1387	0.0103	0.0123
HDCELEB	80.60094	104.69990	406.62900	0.94	-0.11	-14.30	0.0395	0.0180	-0.0032
HDHALDO	80.59790	104.70005	407.04508	-2.10	0.05	-6.90	-0.0370	0.0052	-0.0140
HDDENET	80.60194	104.70018	407.45695	1.94	0.18	-3.87	-0.1324	-0.0176	-0.0077
HDEOWYN	80.60208	104.69967	407.54981	2.08	-0.33	-2.13	-0.1120	-0.0041	0.0129