



Jefferson Lab Alignment Group

Data Transmittal

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DATE: 09/07/2022

FROM: Elena Balan

Checked: CG

: B2048

DETAILS:

M:\align\DATA\Step2B\HALLB\Polarized Target\220905A

Below are the survey results of the polarized target, the horizontal and vertical raster and the BPM. The found coordinates are based on the CEBAF coordinate system. The Beam Following coordinates are the amount offset from the design (ideal) location, where a +X is beam left, a +Y is above and +Z is downstream from the ideal position. The delta angles are the difference from design shown in degrees.

- 7/20/2022 survey:

Component	CEBAF Coord. System			Beam Following			Yaw[deg.]	Pitch[deg.]	Roll[deg.]
	X[m]	Y[m]	Z[m]	X[mm]	Y[mm]	Z[mm]			
HBPOL22	-80.59923	103.35481	-398.79164	-0.77	-0.450	-29.89	0.00315	0.02865	-0.07792
R2H01H	-80.60037	103.35519	-393.29270	0.37	-0.074	-112.83	-0.00573	-0.00745	0.05987
R2H01V	-80.59987	103.35506	-393.80115	-0.13	-0.205	-112.38	-0.04641	0.01031	-0.06474

- 09/02/2022 survey:

Component	CEBAF Coord. System			Beam Following			Yaw[deg.]	Pitch[deg.]	Roll[deg.]
	X[m]	Y[m]	Z[m]	X[mm]	Y[mm]	Z[mm]			
HBPOL22	-80.6003	103.3571	-398.8008	0.30	1.86	-20.76	0.02865	0.03065	-0.11459
R2H01H	-80.6000	103.3552	-393.2990	-0.03	-0.11	-106.51	-0.00831	0.01089	-0.02521
R2H01V	-80.6000	103.3553	-393.8077	-0.01	-0.01	-105.84	-0.01518	-0.00430	0.04269
IPM2H01	-80.5999	103.3550	-389.6626	-0.09	-0.24	-1386.27	0.00401	0.01719	-0.02177