



Jefferson Lab Alignment Group

Data Transmittal

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Checked: CG

: B2035

DETAILS:

M:\align\DATA\Step2B\HALLB\Polarized Target\220608A

Below are presented the results of the 8th of June 2022, survey. 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 lower and -Z is upstream from the ideal, looking downstream. The delta angles are the difference from design shown in degrees.

Component	CEBAF Coord. System			Beam Following					
	X[m]	Y[m]	Z[m]	X[mm]	Y[mm]	Z[mm]	Yaw[deg.]	Pitch[deg.]	Roll[deg.]
HBPOL22	-80.59957	103.35475	-398.79171	-0.43	-0.51	-29.82	0.00745	0.02836	-0.09626
IPM2H01	-80.60005	103.35509	-389.65565	0.05	-0.17	1393.22	-0.00745	0.00430	-0.02664
MQA2H00	-80.60010	103.35527	-386.67560	0.10	0.01	5.80	0.00945	0.00487	0.02893
R2H01H	-80.60020	103.35522	-393.29283	0.20	-0.04	-112.70	0.04784	-0.01031	0.03724
R2H01V	-80.59998	103.35511	-393.80136	-0.02	-0.16	-112.17	-0.00401	-0.00258	-0.06589

As requested, the DS flange for the girder and the US flange of the BPM box were measured.

Component	CEBAF Coord. System			Z[m] relative to HBPOL22
	X[m]	Y[m]	Z[m]	
MQA2H00_DS FLANGE	-80.60267	103.3549	-387.81644	-10.975
IPM2H01_US FLANGE	-80.60221	103.3538	-389.28772	-9.504

