



Jefferson Lab Alignment Group

Data Transmittal

TO: D. Meekins, D. Gaskell

DATE: 09/15/2022

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Checked: CG

: C2049

DETAILS:

M:\align\DATA\Step2B\HALLC\Target\220914A

Below are the results of the 09/14/2022 Hall C target survey. The upstream loop positions were determined by measuring the downstream face of the target block and projecting the location of the adjacent flange to it. The loop position at target centerline was calculated by shifting the upstream loop location normal to the block face the found distance. The ideal Z value of the downstream target block face is 40.16mm to target can. 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.

Component	Beam Following			Yaw [deg.]	Pitch [deg.]
	X[mm]	Y[mm]	Z[mm]		
Loop1	0.27	0.01	-0.20	0.3340	0.1247
Loop2	0.53	0.10	-0.96	0.3340	0.1247
Carbon_hole	0.83	-0.06	2.21		
Carbon_hole_repeat	0.85	0.01	2.16		

