



Jefferson Lab Alignment Group

Data Transmittal

TO: T. Whitlatch

DATE: 10/06/2021

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Checked: TPSIII

: D2008

DETAILS:

DATA\Step2B\HallD\Target\211006A

Below are the results from the Hall D liquid helium target survey carried out on October 5th, 2021.

The ideal and found coordinates are shown in meters relative to the CEBAF coordinate system. The beam following coordinates (bfs - millimeters) are also shown and are described as follows: Negative x is to the beam right from ideal beam looking downstream; negative y is the amount lower than beamline; negative z is amount upstream from ideal target. Positive yaw is the counter clockwise rotation about the Y axis; negative pitch is the clockwise rotation about the X axis (physics standard); positive roll is the clockwise rotation about the Z axis.

	Cebaf Coordinate Location [meters]			Beam Following [millimeters]			Angular Position [degrees]		
	X [m]	Y [m]	Z [m]	dX [mm]	dY [mm]	dZ [mm]	Yaw°	Pitch°	Roll°
HDLHYD_Ideal	80.60000	104.70000	398.78983						
HDLHYD	80.60012	104.69990	398.78942	0.12	-0.098	-0.41	0.00315	-0.00917	-0.02005