



Jefferson Lab Alignment Group

Data Transmittal

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FROM: Kelly Tremblay

Checked: SEH

: B1901

DETAILS:

data: step2b\hallb\svt\190129a && step2b\hallb\target\190129a

The Hall B SVT and target were surveyed on January 28th, and 29th, 2019. The results are below. The table shows the ideal coordinates in the CEBAF system (meters), the beam following system (BFS) in millimeters, beam following angular deltas and the As-found location in the Cebaf system.

The BFS data shows the as-found position as it follows the beam relative to the ideal position. In the BFS, a positive dx value is to the beam left looking downstream along beam from the ideal; a positive dy is higher vertically from ideal; A positive dz is downstream from ideal. The delta angle are shown in degrees and are the differences (found – ideal) from ideal.

Component	Cebaf Coordinates Ideal			Beam Following [millimeters]			BFS Angular [degrees]		
	ideal X[m]	ideal Y[m]	ideal Z[m]	bfs dx	bfs dy	bfs dz	dYaw	dPitch	dRoll
TARGET	-80.60000	103.35526	-398.82153	0.13	-0.31	-29.97	0.0012	-0.0043	-0.0198
SVT	-80.60000	103.35526	-398.82153	-0.03	-0.38	-0.17	0.0083	-0.0115	0.0120
Cebaf coordinates FOUND									
Component	fnd X[m]	fnd Y[m]	find Z[m]						
TARGET	-80.60013	103.35495	-398.79156						
SVT	-80.59997	103.35488	-398.82136						