



Jefferson Lab Alignment Group

Data Transmittal

TO: S. Stepanyan, V. Burkert, B. Miller

DATE: 11/30/2018

FROM: Kelly Tremblay

Checked: SEH

: B1895

DETAILS:

data : step2b\hallb\target\181127a & 181126a

The Hall B target was surveyed November 26th and 27th, 2018. The first day's survey (26th) was to establish where the target was currently and the second day (27th) was to put the target back in the same position. The rail stops were moved in-between surveys. The target center location for both days and also from memo B1882 (Aug/2018) is shown below.

Survey Date	As-Found BFS [mm]			As-Found Angular [degrees]		
Target	x[mm]	y[mm]	z[mm]	yaw[deg]	pitch[deg]	roll[deg]
11/27/2018	-2.00	0.06	-29.76	-0.0642	-0.0034	0.0321
11/26/2018	-0.97	-0.12	-29.81	-0.0481	-0.0049	0.0278
08/10/2018	1.20	1.07	-29.96	-0.0086	0.0066	0.0169

Positive x is to the beam left 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; positive roll is the clockwise rotation about the Z axis.

The ideal CEBAF coordinate for the target is shown below for reference.

Component	Cebaf Ideal [meters]		
	x[m]	y[m]	z[m]
Target	-80.60000	103.35526	-398.82153