



Jefferson Lab Alignment Group

Data Transmittal

TO: B. Miller, S. Stepanyan, Y. Sharabian

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FROM: Kelly Tremblay

Checked: rtm

: B1872

DETAILS:

data: step2a\hallb → htcc\180719a & solenoid\180719a

The HTCC and Solenoid were set July 19th, 2018. The data below shows the as-set locations. Note that HTCC was to be set 20 millimeters upstream and the Solenoid magnet 30 millimeters upstream from design.

The table below shows the ideal coordinates in the Cebaf coordinate system (meters). The found values are listed in millimeters from the ideal along beamline. A positive x is transverse to the beam left, positive dy is above the beamline, negative dz is upstream from the ideal. The angles are deltas from ideal (degrees).

	Cebaf Coord System Ideal			Beam Following System			Angular Deltas		
Component	X[m]	Y[m]	Z[m]	dx [mm]	dy [mm]	dz [mm]	dYaw(deg)	dPitch (deg)	dRoll (deg)
HBHTCC	-80.60000	103.35526	-398.82153	0.14	0.05	-20.21	0.00286	-0.00315	-0.00029
SOLEN	-80.60000	103.35526	-398.82153	-1.07	-0.84	-29.56	-0.02034	0.00602	0.00315