



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** J. Benesch, D. Gaskell, K. Cole, M. Keesee

**DATE:** 23 Aug 2017

**FROM:** Chris Gould

**Checked:** JCD

**# :** L1811

**DETAILS:**

M:\align\DATA\Step2B\BSY\3C\_12\170724A  
2A\170721B, 2A\170721C

Below are the results from the 3C energy harp survey. The beam following coordinates (BFS) are the deltas from the ideal coordinates. A +X is beam left, a +Y is up and a +Z is downstream. Encoder values were obtained during fiducialization and are based on the wires at beam center; therefore, the as-set offsets should be considered. Caliper distances were measured as a back-up to the encoder readings and are included for completeness only.

	BFS (mm)				AS-Set CEBAF MECHANICAL (Meters)		
	X	Y	Z		X	Y	Z
IHA3C07A	0.06	0.11	-0.04		-82.55975	99.97811	-310.27195
IHA3C07B	0.06	-0.08	0.20		-82.69922	99.97792	-312.76669
IHA3C12A	-0.18	-0.10	8.00		-86.73464	99.97790	-333.50657
IHA3C12B	-0.17	0.10	-0.07		-87.25164	99.97810	-334.90041
IHA3C17A	-0.03	0.06	1.68		-98.19777	99.97806	-353.87727
IHA3C17B	-0.12	-0.01	0.11		-99.33775	99.97799	-355.36306

	ENCODER VALUES					CALIPER READINGS (mm)		
	Home Limit	Vert. 1	Horiz.	Vert. 2	Lower Limit	Vert. 1	Horiz.	Vert. 2
IHA3C07A	001228	050839	086492	113470	116313	114.32	136.38	152.64
IHA3C07B	001259	051243	079815	111536	117115	115.20	132.79	152.22
IHA3C12A	000947	046173	075792	105316	110623	112.45	130.82	148.97
IHA3C12B	000914	047080	082063	109423	118950	112.14	133.84	150.98
IHA3C17A	001089	049096	078224	110168	116660	114.35	132.33	152.04
IHA3C17B	001268	047377	082028	109164	117760	112.11	134.17	150.81