



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** Arne Freyberger ,Joe Grames

**DATE:** 05 Nov 2014

**FROM:** Steve Hardisty

**Checked:** JMW

**# :** A1584

**DETAILS:**

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Below are the results from the Hall A super harp girder survey on Oct. 22. The as set locations are in the CEBAF machine coordinate system in meters. The beam following coordinates (BFS) are the deltas from the ideal coordinates in millimeters. A +X is to the beam left, and a +Y is up. BPM's measured directly list the upstream and downstream ends. The harps and BPM boxes list the fiducial points measured.

COMPONENT	AS SET			BFS	
	X(M)	Y(M)	Z(M)	dX(mm)	dY(mm)
IPM1H04A U	-37.58844	100.02269	-386.99667	-0.27	0.69
IPM1H04A D	-37.47426	100.02148	-387.14591	-0.01	-0.52
IHA1H04A_A	-37.37748	100.06161	-387.15831	-0.17	0.01
IHA1H04A_B	-37.4321	100.06211	-387.20071	-0.10	0.03
IHA1H04A_C	-37.48757	100.06158	-387.24216	-0.04	0.13
IPM1H04B_B	-37.39199	99.98381	-387.70361	0.02	0.05
IPM1H04B_C	-36.93209	99.98385	-388.30377	0.02	0.17
FY1H04	-36.15611	100.02199	-388.86397	0.12	-0.01
IPM1H04C_A	-35.08299	99.98534	-390.71107	-0.13	0.10
IPM1H04C_D	-35.54417	99.98476	-390.11221	-0.12	0.04
IPM1H04D U	-34.47418	100.02078	-391.05563	-0.04	-1.22
IPM1H04D D	-34.34284	100.02174	-391.22770	0.50	-0.26
IHA1H04B_A	-34.25422	100.06169	-391.22825	-0.16	0.11
IHA1H04B_B	-34.30903	100.06199	-391.27081	-0.08	0.10
IHA1H04B_C	-34.36409	100.06159	-391.31316	-0.07	0.13