



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** Y. Roblin, C. Dubbe, N. Gauthier

**DATE:** 08/19/2021

**FROM:** Elena Balan

**Checked:** TPS III

**# :** A2000

**DETAILS:**

data: step2b\halla\190524a  
Step2B\HALLA\191025A

Listed below are components on the 1H line elements as found data.  
The found coordinates are in the CEBAF coordinate system. The Beam Following coordinates are the amount offset from the design (ideal) location, where a +X is beam left, a +Y is up and +Z is downstream from the ideal. Beam following values are in millimeters. Distance to target (S[m]) is upstream of the design Hall A target.

Target	Found Coordinates [meters]				Beam Following Coordinates [mm]		
	S[m]	X[m]	Y[m]	Z[m]	dx bfs[mm]	dy bfs[mm]	dz bfs[mm]
IHA1H00 ( SuperHarp )	224.583	-47.30706	100.02208	-374.33140	-0.11	0.10	451.09
MQK1H01 ( QK )	144.403	-44.34124	100.02203	-378.19689	0.10	0.03	-0.37
MQO1H02 ( Quad )	117.280	-43.15598	100.02186	-379.74149	0.06	-0.14	-1.22
MQM1H02 ( Quad )	108.816	-42.75867	100.02187	-380.25941	0.14	-0.13	1.55
MQO1H03 ( Quad )	100.264	-42.34121	100.02191	-380.80350	0.16	-0.09	2.33
MQO1H03A ( Quad )	92.419	-41.94237	100.02194	-381.32319	0.12	-0.06	-2.57
MMA1H01 ( Dipole )	75.810	-41.03806	100.02205	-382.50139	-0.07	0.05	-0.30
MQA1H04 ( QA )	37.346	-38.45258	100.02188	-385.87077	-0.12	-0.12	-0.12
IPM1H04 ( SEEBPM )	34.616	-38.22638	100.02251	-386.16647	0.43	0.51	
IPM1H04A ( SEEBPM )	26.902	-37.53432	100.02082	-387.06775	-0.09	0.04	3.92
IBC1H04B ( BCM )	21.068	-36.94275	100.02176	-387.83788	-0.45	-0.24	-12.15
IBC1H04C ( BCM )	7.356	-35.09599	100.02172	-390.24469	-0.41	-0.28	-23.41
IPM1H04E ( SEEBPM )	4.013	-34.41360	100.02103	-391.13528	0.37	-0.58	
IHA1H04B ( SuperHarp )	3.587	-34.30927	100.06162	-391.27059	-0.12	0.25	-4.43
TARGET (Hall A Center)		-32.95843	100.02200	-393.03108			