



# Jefferson Lab Alignment Group

## Data Transmittal

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

**DATE:** 08/25/2021

**FROM:** Elena Balan

**Checked:**

**# :** L2001

**DETAILS:**

data: Step2B\BSY1C\_12\210317A

Listed below are components on the 1C 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. For the Super Harp pairs we were measuring the relative location of the tooling blocks previously located above the external wire reference of each harp. Data was reported in the data transmittal A1995.

TARGET	X[m]	Y[m]	Z[m]	dx bfs[mm]	dy bfs[mm]
IPM1C00 ( SEEBPM )	-80.50160	100.02414	-263.83382	1.30	2.14
MQA1C01 ( QA )	-80.24687	100.02194	-272.90971	0.08	-0.06
MQK1C02 ( QK )	-80.18263	100.02197	-275.20864	0.06	-0.03
MQA1C03 ( QA )	-80.11835	100.02206	-277.50803	0.01	0.06
MQK1C04 ( QK )	-79.67301	100.02202	-291.80057	-0.01	0.02
MQK1C05 ( QK )	-79.48892	100.02208	-295.09524	0.10	0.08
MQA1C06 ( QA )	-79.08100	100.02211	-302.38385	-0.33	0.11
MQK1C07 ( QK )	-78.78516	100.02218	-307.67566	-0.31	0.17
IHA1C07A ( SuperHarp )	-78.94514	99.99202	-309.03588	235.35	-29.98
IHA1C07B ( SuperHarp )	-78.72287	99.99183	-313.00223	234.84	-30.17
MQK1C08 ( QK )	-78.44496	100.02200	-313.76612	-0.20	-0.16
MBA1C05 ( BA )	-78.26350	100.02213	-316.50999	0.06	0.13
MQA1C09 ( QA )	-77.97197	100.02207	-318.94242	-0.08	0.07
MBA1C06 ( BA )	-77.58581	100.02218	-321.66593	0.06	0.18
MQK1C10 ( QK )	-77.11350	100.02199	-324.06860	-0.03	-0.01
MBA1C07 ( BA )	-76.52476	100.02205	-326.75553	0.04	0.05
MQK1C11 ( QK )	-75.87409	100.02200	-329.11652	-0.02	0.00
MQK1C12 ( QK )	-74.26067	100.02205	-334.05747	-0.14	0.05
MBA1C09 ( BA )	-73.27754	100.02220	-336.62630	-0.51	0.20
MQK1C13 ( QK )	-72.28261	100.02206	-338.86426	0.05	0.06
MBA1C10 ( BA )	-71.11013	100.02201	-341.35190	-0.58	0.01
MQK1C14 ( QK )	-69.95055	100.02212	-343.50935	-0.08	0.12
MBA1C11 ( BA )	-68.59554	100.02200	-345.90253	-0.49	0.00
MQA1C15 ( QA )	-67.27791	100.02197	-347.96746	0.13	-0.02
MBA1C12 ( BA )	-65.74815	100.02198	-350.25262	0.01	-0.02
MQA1C16 ( QA )	-64.27918	100.02200	-352.21292	-0.10	0.00

TARGET	X[m]	Y[m]	Z[m]	dx bfs[mm]	dy bfs[mm]
<b>MQA1C17 ( QA )</b>	-62.84871	100.02194	-354.07724	-0.04	-0.06
<b>MQA1C18 ( QA )</b>	-62.36218	100.02183	-354.71143	0.04	-0.17
<b>IHA1C18A ( SuperHarp )</b>	-59.73212	99.98963	-358.52643	235.90	-32.37
<b>IHA1C18B ( SuperHarp )</b>	-61.98955	99.98978	-355.58111	233.84	-32.22
<b>MQR1C19 ( QR )</b>	-59.13428	100.02204	-358.91785	-0.11	0.04
<b>MQR1C20 ( QR )</b>	-58.64781	100.02196	-359.55199	-0.03	-0.04
<b>VBV1C20 ( BeamlineValve )</b>	-58.27107	100.02330	-360.04162	-0.84	1.30
<b>IPM1P01A ( SEEBPM )</b>	-55.65324	99.88529	-363.45801	2.05	-3.75
<b>IPM1P02A ( SEEBPM )</b>	-53.84368	99.80663	-365.81214	-0.47	0.13
<b>IPM1P02B ( SEEBPM )</b>	-52.94538	99.80636	-366.98240	-0.73	-0.14
HALL A	-32.95843	100.02200	-393.03108		