



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** B. Wojtsekhowski, D. Spiers

**DATE:** 10/11/2022

**FROM:** Elena Balan

**Checked:** cg

**# :** A2052

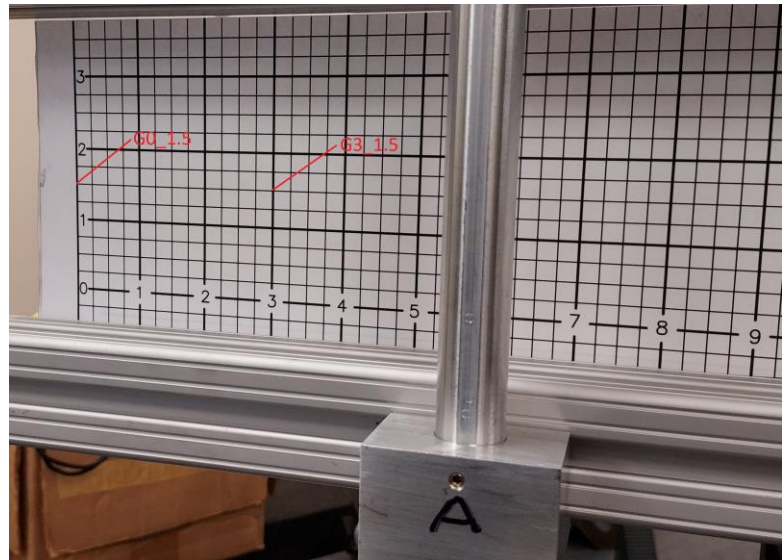
**DETAILS:**

M:\align\DATA\Inspection\HallA\GEn\_22\221006A

The results for the 6<sup>th</sup> September, 2022 compass screens survey are presented. Locations below are in a Beam Following System in reference to the Hall A GEN22 target. In a BFS, a positive dx value is to the beam left looking downstream along beam from the ideal; a positive dy is higher vertically from ideal; a positive dz is downstream from ideal position. Accuracy for defining the intersection is 0.5mm.

For the Primary screen, the position of the points was considered at the intersection of the 1.5-inch horizontal line and every 3-inch vertical lines.

Primary Screen			
Component	dx[mm]	dy[mm]	dz[mm]
G0_1.5	1163.60	-1.37	188.92
G3_1.5	1107.20	-1.55	239.39
G7_1.5	1031.51	-1.29	307.11
G9_1.5	993.49	-1.41	341.13
G12_1.5	936.50	-1.00	392.12
G15_1.5	880.17	-1.23	442.51
G16.25_1.5	856.55	-1.36	463.65
G16_1.5	860.87	-1.15	459.78
G18_1	823.22	-14.10	493.50
G18_1.5	823.30	-1.27	493.40
G18_2	823.38	11.48	493.30
G21_1.5	766.45	-1.03	544.26
G24_1.5	709.67	-1.55	595.06
G27_1.5	652.93	-1.23	645.83
G30_1.5	596.16	-1.16	696.62
G33_1.5	539.38	-1.36	747.42
G33_1.5REP	539.51	-1.36	747.31
G34.725_1.5	506.42	-1.17	776.91



For the Secondary screen, points were considered at the intersection of the 8th horizontal line and every 10th vertical line.

Secondary Screen			
Component	dx[mm]	dy[mm]	dz[mm]
G1_8	-690.25	-4.45	-650.66
G10_8	-718.42	-4.52	-601.03
G20_8	-749.63	-3.48	-546.07
G30_8	-781.04	-4.33	-490.72
G40_8	-812.36	-4.58	-435.54
G50_8	-843.71	-5.36	-380.30
G60_8	-875.05	-4.41	-325.10
G70_8	-906.38	-4.80	-269.90
G80_8	-937.70	-4.71	-214.72
G90_8	-969.13	-4.34	-159.36
G100_8	-1000.35	-4.59	-104.36
G110_8	-1031.68	-4.30	-49.17
G120_8	-1063.06	-4.86	6.12

