



Jefferson Lab Alignment Group

Data Transmittal

TO: B. Wojtsekhowski

DATE: 18 Dec 2023

FROM: Elena Balan

Checked: SEH

: A2093

DETAILS:

M:\align\DATA\Step2B\HALLA\GEN_22\231215A
M:\align\DATA\Inspection\HallA\GEN_22\240312A

The primary compass screen was as-found on the 15th of December, 2023. Coordinates are in a Beam Following System about the Hall A GEN22 target. In a BFS, a positive dx value is to the beam left looking downstream along, a positive dy is higher vertically, and a positive dz is downstream from the ideal position.

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 line.

Primary Screen			
Component	dx[mm]	dy[mm]	dz[mm]
G0_1.5	1164.18	-4.29	193.7
G3_1.5	1107.63	-4.34	244
G7_1.5	1031.78	-3.91	311.5
G9_1.5	993.65	-3.96	345.4
G12_1.5	936.53	-3.42	396.3
G15_1.5	880.07	-3.52	446.5
G16.25_1.5	856.39	-3.6	467.6
G16_1.5	860.73	-3.38	463.7
G18_1	822.77	-16.3	497.2
G18_1.5	823.06	-3.42	497.3
G18_2	823.34	9.33	497.4
G21_1.5	766.08	-3.06	548
G24_1.5	709.17	-3.44	598.6
G27_1.5	652.29	-2.98	649.2
G30_1.5	595.39	-2.8	699.9
G33_1.5	538.46	-2.88	750.5
G34.725_1.5	505.43	-2.6	779.9



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

Secondary Compass Screen			
Component	dx[mm]	dy[mm]	dz[mm]
G1_8	-690.47	34.12	-650.42
G10_8	-718.52	34.09	-600.67
G20_8	-749.93	34.03	-545.51
G30_8	-781.54	34.00	-490.31
G40_8	-812.78	33.90	-435.34
G50_8	-843.97	33.96	-380.19
G60_8	-875.36	33.91	-324.93
G70_8	-906.68	33.90	-269.85
G80_8	-938.01	33.80	-214.70
G90_8	-969.12	33.87	-159.26
G100_8	-1000.30	33.85	-104.21
G110_8	-1031.81	33.77	-48.96

