



Jefferson Lab Alignment Group

Data Transmittal

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DATE: 16 Feb 2006

FROM: Chris Curtis

Checked:

: A1040

DETAILS:

Below are the locations of the foil targets on the Big Hand detector in the four run positions. Four foil targets were added on each side of the and measured once. These locations are derived from the surveys reported on DTM #A1029 and a further survey carries out on Feb 14, 2006. The foils are labeled clockwise from bottom left. Coordinates are in millimeters based on the ideal target location as origin. Positive Z is downstream along the beamline, positive X is to the beam right, and positive Y is up.

Position #1 – Left Outer Rail (2A\HallA\060106B)

	Z(mm)	X(mm)	Y(mm)
BHF1	11185.2	3893.2	-1373.1
BHF2	11203.2	3898.9	1779.2
BHF3	11958.2	4334.7	1764.4
BHF4	11940.5	4335.1	-1435.7
BHF5	10082.3	7530.6	-1343.3
BHF6	10083.7	7521.5	1796.8
BHF7	9322.3	7087.0	1800.1
BHF8	9320.6	7086.5	-1328.9

Position #2 – Right Outer Rail (2A\HallA\060106C)

BHF1	11423.3	3473.4	-1372.3
BHF2	11439.9	3479.1	1780.0
BHF3	12195.3	3914.3	1765.5
BHF4	12179.0	3914.6	-1434.6
BHF5	10323.6	7111.8	-1343.0
BHF6	10323.7	7102.8	1797.1
BHF7	9561.9	6668.9	1800.1
BHF8	9561.5	6668.3	-1328.9

Position #3 – Center Rail (2A\HallA\060106A)

BHF1	8216.5	3545.0	-1370.6
BHF2	8228.6	3557.3	1781.8
BHF3	8983.3	3993.6	1767.4
BHF4	8971.6	3987.2	-1432.7
BHF5	7111.0	7181.6	-1350.6
BHF6	7106.5	7179.2	1789.6
BHF7	6345.4	6744.1	1792.4
BHF8	6349.5	6736.9	-1336.6

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Position #4 – Inner Rail / Start Position (2B\HallA\060214A)

	Z(mm)	X(mm)	Y(mm)
BHF1	5975.1	1971.0	-1357.3
BHF2	6007.4	2000.5	1794.8
BHF3	6761.2	2438.1	1773.3
BHF4	6728.9	2414.3	-1426.6
BHF5	4862.8	5605.7	-1349.8
BHF6	4878.6	5620.3	1790.3
BHF7	4118.3	5183.8	1800.4
BHF8	4102.4	5159.7	-1328.5