



Jefferson Lab Alignment Group

Data Transmittal

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FROM: Chris Curtis

Checked:

: A1068

DETAILS:

Below are the locations of the fiducial blocks and foil targets on the Big Hand detector in the four post-run surveys. Only the fiducial blocks were measured directly. The foil target locations were derived from the survey of the fiducial blocks and a tie survey carried out on Feb 1st, 2006. The targets are labeled clockwise from bottom left, with the fiducial blocks as A-H and the foils as 1-8. 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 (2B\HallA\Gen\060515a)

	Z(mm)	X(mm)	Y(mm)
HABHA	11002.1	3565.0	-1342.2
HABHB	11000.7	3565.5	900.6
HABHC	12237.2	4284.0	895.3
HABHD	12225.1	4284.8	-1343.2
HABHE	10161.3	7814.0	-1327.2
HABHF	10157.2	7804.3	914.3
HABHG	8934.9	7091.2	912.9
HABHH	8932.7	7087.9	-1329.6
BHF1	11191.0	3901.4	-1374.9
BHF2	11207.6	3907.6	1777.4
BHF3	11960.9	4346.2	1762.9
BHF4	11944.7	4346.1	-1437.2
BHF5	10074.3	7534.6	-1346.1
BHF6	10074.3	7525.9	1794.0
BHF7	9314.6	7088.5	1797.1
BHF8	9314.3	7087.6	-1332.0

Position #2 – Right Outer Rail (2B\HallA\Gen\060515b)

HABHA	11242.0	3149.1	-1341.6
HABHB	11239.4	3149.2	901.1
HABHC	12475.3	3869.0	896.6
HABHD	12464.2	3870.2	-1341.9
HABHE	10396.7	7397.2	-1326.4
HABHF	10391.5	7387.1	915.1
HABHG	9170.0	6672.8	913.0
HABHH	9168.9	6669.8	-1329.5
BHF1	11430.6	3485.7	-1374.2
BHF2	11445.5	3491.4	1778.1
BHF3	12198.4	3930.9	1764.0
BHF4	12183.8	3931.2	-1436.1
BHF5	10310.0	7117.7	-1345.4
BHF6	10308.5	7108.5	1794.7
BHF7	9549.2	6670.3	1797.3
BHF8	9550.4	6669.9	-1331.7

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Position #3 – Center Rail (2B\HallA\Gen\060511a)

	Z(mm)	X(mm)	Y(mm)
HABHA	8026.2	3208.1	-1339.5
HABHB	8020.3	3212.6	903.2
HABHC	9259.0	3927.5	899.2
HABHD	9251.3	3924.4	-1339.4
HABHE	7197.8	7459.5	-1333.8
HABHF	7189.3	7453.9	907.7
HABHG	5964.9	6744.4	905.2
HABHH	5967.1	6737.1	-1337.3
BHF1	8216.1	3543.9	-1372.5
BHF2	8226.5	3555.7	1779.9
BHF3	8981.2	3992.1	1766.0
BHF4	8971.2	3986.3	-1434.1
BHF5	7110.0	7180.4	-1352.4
BHF6	7103.9	7177.4	1787.7
BHF7	6342.8	6742.2	1790.1
BHF8	6348.7	6735.6	-1338.9

Position #4 – Extreme Left Outer Rail (2B\HallA\Gen\060512b)

HABHA	10796.7	3914.2	-1343.1
HABHB	10796.1	3914.1	899.7
HABHC	12033.4	4631.4	894.2
HABHD	12020.4	4632.8	-1344.3
HABHE	9960.2	8164.0	-1326.7
HABHF	9956.9	8153.8	914.8
HABHG	8734.0	7441.9	913.7
HABHH	8730.8	7439.2	-1328.8
BHF1	10985.9	4250.4	-1375.8
BHF2	11003.7	4255.8	1776.5
BHF3	11757.5	4693.7	1761.8
BHF4	11740.0	4694.4	-1438.3
BHF5	9872.9	7884.8	-1345.7
BHF6	9874.1	7875.3	1794.4
BHF7	9113.9	7438.6	1797.7
BHF8	9112.4	7438.5	-1331.3

