



Jefferson Lab Alignment Group

Data Transmittal

TO: J. Segal	DATE : 30 Jan 2007
FROM: J. Dahlberg	Checked:
	DT# A1094

DETAILS:

Below are the results from the Right spectrometer hut detector survey. A right handed coordinate system was centered on the top VDC chamber fiducial points (7.92mm above VDC surface), and pitched 45 degrees to a beam following system. A +X is to the beam left, a +Z is downstream, and a +Y is above, (in millimeters). The points formatted in **bold** represent the significant direction measured. The second set of coordinates for the rail points are rotated back parallel with the VDC to show the Y offsets from the VDC chamber.

LOCATION	Z	X	Y	LOCATION	Z	X	Y
TBA	-0.1	-304.3	0.0	R1BLZ	1087.5	709.4	-1473.2
TBB	0.0	304.2	-0.1	R2BLZ	1310.8	716.5	-1469.5
TBC	862.1	0.0	-862.0	R3BLZ	1860.3	689.7	-1806.4
TBD	-862.1	0.0	862.2	R4BLZ	2424.0	674.8	-1772.2
				R5BLZ	2618.0	692.2	-1775.2
				R6BLZ	2825.7	683.0	-1768.7
RAILA	-2038.0	-512.0	1328.0	R1BLX	1060.2	707.2	-1449.9
RAILB	-2035.2	511.2	1325.6	R2BLX	1288.6	712.4	-1450.0
RAILC	889.0	510.1	-1604.4	R3BLX	1840.1	697.9	-1792.6
RAILD	870.2	-513.2	-1584.0	R4BLX	2399.9	663.7	-1794.0
RAILArot45	-2380.1	-512.0	-502.1	R5BLX	2592.6	703.0	-1794.7
RAILBrot45	-2376.5	511.2	-501.8	R6BLX	2799.3	676.0	-1795.6
RAILCrot45	1763.1	510.1	-505.9				
RAILDrot45	1735.3	-513.2	-504.7				
R1BRZ	1081.3	-709.6	-1477.7	R1TBRZ	1080.0	-729.5	2032.2
R2BRZ	1303.8	-712.0	-1475.2	R2TBRZ	1302.7	-726.2	2028.6
R3BRZ	1853.7	-716.6	-1781.1	R3TBRZ	1853.2	-707.0	2023.0
R4BRZ	2416.7	-710.5	-1781.1	R4TBRZ	2416.9	-764.3	2030.3
R5BRZ	2611.3	-714.6	-1780.3	R5TBRZ	2611.9	-747.5	2017.8
R6BRZ	2818.7	-722.2	-1781.7	R6TBRZ	2817.1	-764.5	2017.2
R1BRX	1064.4	-694.5	-1453.9	R1TBRX	1053.5	-729.7	2006.5
R2BRX	1284.7	-699.6	-1454.5	R2TBRX	1280.8	-726.8	2006.4
R3BRX	1831.0	-719.4	-1796.8	R3TBRX	1833.4	-722.0	2006.5
R4BRX	2392.9	-722.8	-1798.4	R4TBRX	2388.1	-732.9	2006.7
R5BRX	2586.4	-723.4	-1799.0	R5TBRX	2580.7	-732.5	2006.6
R6BRX	2790.8	-727.3	-1798.8	R6TBRX	2781.0	-715.2	2006.3

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LOCATION	Z	X	Y	LOCATION	Z	X	Y
R1TBLZ	1083.3	704.1	2029.1	GCDFRY1	2601.7	-544.6	1375.8
R2TBLZ	1306.0	704.3	2033.5	GCDFRY2	2613.7	-531.2	-1085.4
R3TBLZ	1854.4	709.7	2051.2	GCDFLY1	2616.0	490.6	1379.5
R4TBLZ	2419.4	682.6	2002.0	GCDFLY2	2619.6	505.7	-1100.1
R5TBLZ	2614.2	691.4	2000.5				
R6TBLZ	2819.7	697.0	2033.0	S1TOPX1	802.9	-660.0	951.9
				S1TOPX2	802.5	-294.6	951.2
R1TBLX	1055.0	680.3	2010.2	S1TOPX3	807.9	220.4	950.1
R2TBLX	1287.2	703.3	2010.5	S1TOPX4	810.9	638.4	949.5
R3TBLX	1823.6	700.1	2010.0	S2MBX1	2777.6	208.5	-1005.7
R4TBLX	2386.1	670.4	2009.3	S2MBX2	2772.7	-238.8	-1006.6
R5TBLX	2597.5	675.2	2010.3				
R6TBLX	2783.9	689.9	2010.8	S1LY1	760.6	782.3	693.4
				S1LY2	760.2	787.1	-478.5
GCUFLZ1	1356.7	345.0	1338.7	S1RY1	761.0	-798.7	695.0
GCUFLZ2	1350.3	366.5	-1097.0	S1RY2	767.8	-798.2	-502.3
GCUFRZ1	1353.7	-399.6	1391.8	S2MGRY1	2748.2	239.6	1184.1
GCUFRZ2	1347.3	-374.5	-1141.0	S2MGRY2	2748.7	242.8	320.9
				S2MGRY3	2746.1	246.3	-343.3
GCUFTX1	1312.5	-339.0	1396.3	S2MGRY4	2752.0	249.1	-851.3
GCUFTX2	1369.6	348.5	1399.2	S2MSY2	2775.8	-821.9	607.6
GCUFBX1	1365.7	-367.3	-1210.2	S2MSY3	2773.8	-817.1	-438.4
GCUFBX2	1329.9	364.4	-1206.7	S2MSY4	2775.8	-810.4	-1401.8
GCUFLY1	1335.6	362.6	1315.1	S11RZ1	771.9	-159.9	911.7
GCUFLY2	1331.6	375.8	-1131.0	S11RZ2	768.0	-177.0	699.2
GCUFRY1	1314.0	-400.1	1325.9	S12RZ1	760.0	-184.3	630.5
GCUFRY2	1321.3	-388.1	-1148.7	S12RZ2	782.8	-164.9	399.4
				S13RZ1	762.8	-167.5	341.3
GCDFLZ1	2599.5	484.1	1411.6	S13RZ2	782.3	-153.1	127.6
GCDFRZ2	2592.2	-516.2	-1094.8	S14RZ1	771.2	-153.5	57.9
GCDFRZ1	2596.5	-489.1	1456.8				
GCDFLZ2	2596.3	491.0	-1058.3	S14RZ2	773.0	-159.6	-146.6
				S15RZ1	762.9	-158.3	-229.8
GCDFTX1	2619.1	488.0	1415.3	S15RZ2	781.3	-168.3	-441.0
GCDFBX1	2691.1	-520.0	-1237.1	S16RZ1	770.1	-163.6	-513.9
GCDFTX2	2624.8	-523.6	1410.3	S16RZ2	791.6	-159.7	-723.9
GCDFBX2	2567.0	486.4	-1229.4	S217RZ	2782.6	-81.9	1160.7
				S224RZ	2783.0	-226.6	178.4
				S232RZ	2790.3	-217.3	-922.1

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LOCATION	Z	X	Y
S11LZ1	768.7	159.3	900.5
S11LZ2	765.2	158.1	693.0
S12LZ1	756.0	155.2	629.8
S12LZ2	779.0	147.1	407.2
S13LZ1	768.6	172.7	311.2
S13LZ2	785.9	171.7	135.8
S14LZ1	778.5	173.1	47.3
S14LZ2	777.2	160.7	-159.8
S15LZ1	769.6	181.1	-245.0
S15LZ2	783.2	172.3	-445.0
S16LZ1	780.3	191.2	-519.4
S16LZ2	797.7	170.4	-712.8
S217LZ	2783.7	183.8	1165.5
S224LZ	2786.2	183.0	148.2
S232LZ	2790.2	176.6	-911.8
PSFBRZ1	2920.6	-529.4	-1542.4
PSFBRZ2	2920.3	-582.6	1921.8
PSFBLZ1	2920.5	518.7	1682.8
PSFBLZ2	2924.8	449.0	-1475.2
PSSLY1	3016.8	697.8	1593.2
PSSLY2	3016.1	700.3	1150.0
PSSLY3	3020.8	697.1	106.1
PSSLY4	3017.8	708.9	-1641.0
PSSRY2	3017.9	-728.8	501.0
PSSRY3	2955.5	-728.2	91.8
PSSRY4	2940.9	-725.8	-1436.2
FRLY1	3528.9	799.3	1843.6
FRLY2	3569.5	802.3	512.4
FRLY3	3501.5	804.2	-609.4
FRLY4	3595.7	807.7	-1771.1
FRRY2	3535.4	-834.3	773.2
FRRY3	3474.9	-834.7	-237.1
FRRY4	3472.3	-832.4	-1501.3
FRRTBRY1	3632.6	-835.6	2081.1
FRRTBRY2	3500.1	-836.5	928.7