



Jefferson Lab Alignment Group

Data Transmittal

TO: J. Segal

DATE : 26 Jan 2007

FROM: J. Dahlberg

Checked:

DT_A1093

DETAILS:

Below are the results from the left 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 offsets from the VDC chamber.

LOCATION	Z	X	Y	LOCATION	Z	X	Y
VDC_TBC	862.0	0.0	-862.0	R1BRZ	1151.8	-701.1	-1522.0
VDC_TBA	0.0	-303.9	0.0	R1BLZ	1144.5	655.8	-1521.1
VDC_TBD	-862.1	0.0	862.1	R2BRZ	1375.6	-721.4	-1530.4
VDC_TBB	0.0	304.0	0.0	R2BLZ	1366.8	713.6	-1513.7
RAILA	-2168.0	-510.4	1455.9	R3BRZ	1925.3	-730.3	-1862.8
RAILB	-2167.2	513.3	1455.6	R3BLZ	1917.8	718.8	-1816.2
RAILC	762.5	511.1	-1472.2	R4BRZ	2194.3	-734.7	-1861.1
RAILD	762.5	-512.3	-1472.6	R4BLZ	2187.3	708.7	-1820.3
RAILAROT45	-2562.5	-510.4	-503.5	R5BRZ	2489.4	-723.3	-1854.0
RAILBROT45	-2561.7	513.3	-503.2	R5BLZ	2479.2	710.1	-1823.6
RAILCROT45	1580.2	511.1	-501.8	R6BRZ	2577.6	-722.1	-1847.9
RAILDROT45	1580.5	-512.3	-502.1	R6BLZ	2570.4	738.1	-1862.2
R1BRX	1129.1	-705.8	-1502.2	R7BRZ	2683.4	-728.1	-1847.7
R1BLX	1123.5	660.5	-1498.2	R7BLZ	2675.3	736.3	-1861.5
R2BRX	1346.5	-705.5	-1501.7	R1TRX	1085.5	-702.8	1958.7
R2BLX	1347.7	716.7	-1496.8	R1TLX	1077.8	701.4	1964.1
R3BRX	1904.7	-711.7	-1841.5	R2TRX	1312.3	-713.6	1960.1
R3BLX	1898.1	714.1	-1835.5	R2TLX	1303.5	705.6	1965.4
R4BRXUS	2120.2	-704.1	-1840.6	R3TRX	1874.3	-726.9	1963.5
R4BLXUS	2114.0	719.6	-1834.7	R3TLX	1849.3	706.2	1969.2
R4BRXDS	2166.4	-717.3	-1839.9	R4TRXUS	2064.1	-735.9	1965.3
R4BLXDS	2163.6	721.1	-1833.9	R4TLXUS	2073.1	701.6	1969.8
R5BRX	2463.7	-707.2	-1839.2	R4TRXDS	2128.6	-739.6	1964.6
R5BLX	2452.7	714.2	-1833.2	R4TLXDS	2125.5	702.7	1969.2
R6BRX	2550.9	-706.6	-1838.4	R5TRX	2412.1	-681.5	1967.3
R6BLX	2545.6	725.8	-1832.5	R5TLX	2418.3	711.5	1972.7
R7BRX	2656.8	-705.9	-1838.2	R6TRX	2520.1	-680.5	1967.2
R7BLX	2643.0	720.5	-1832.4	R6TLX	2502.7	727.1	1973.0
				R7TRX	2606.8	-687.0	1968.2
				R7TLX	2605.8	715.3	1973.9

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R1TRZ	1112.6	-723.3	1972.9	GCSEBUFRZ2	1047.8	-359.2	-1050.9
R1TLZ	1105.5	705.3	1978.9	GCSEBUFLZ2	1042.7	405.7	-1187.7
R2TRZ	1335.4	-729.2	1971.5	GCSUFRZ2	1612.6	-363.7	-1095.6
R2TLZ	1328.3	710.2	1988.9	GCSUFLZ2	2350.8	514.4	-1095.3
R3TRZ	1885.3	-726.1	1982.1	GCSDFRZ2	2358.3	-502.1	-1065.4
R3TLZ	1878.4	706.3	1991.4	GCSDFLZ2	1607.4	379.8	-1124.5
R4TRZ	2157.8	-739.2	1986.6				
R4TLZ	2149.5	696.0	1993.1	GCSEBUFRY2	1073.4	-371.9	-1077.3
R5TRZ	2448.8	-724.9	1983.3	GCSEBUFLY2	1070.7	385.5	-1139.9
R5TLZ	2440.4	712.0	1981.3	GCSUFRY2	1585.3	-372.1	-1099.7
R6TRZ	2537.4	-707.5	1978.6	GCSUFLY2	1596.6	392.1	-1132.0
R6TLZ	2534.3	727.5	1988.0	GCSDFRY2	2378.1	-507.6	-1117.2
R7TRZ	2642.7	-753.0	1984.0	GCSDFLY2	2376.1	531.1	-1141.6
R7TLZ	2635.3	735.6	1985.6				
				S1TOPX1	847.0	-569.3	902.9
GCSEBUFTX1	1003.7	-373.4	1352.4	S1TOPX2	849.2	-270.5	904.4
GCSEBUFBX1	1071.0	-352.6	-1250.5	S1TOPX3	840.5	292.7	905.5
GCSUFTX1	1572.1	-399.5	1356.5	S1TOPX4	836.6	570.6	906.3
GCSUFBX1	1599.9	-259.3	-1247.9				
GCSDFTX1	2358.3	-526.1	1384.2	S1RY1	807.5	-797.3	667.1
GCSDFBX1	2370.6	-443.0	-1261.5	S1LY1	790.3	792.1	660.0
				S1RY2	823.0	-790.7	-580.9
GCSEBUFRZ1	1029.7	-373.9	1274.2	S1LY2	807.6	799.7	-516.3
GCSEBUFLZ1	1023.2	351.7	1281.5				
GCSEBUFLZ1	1023.5	374.8	1261.7	S2FX1	2652.4	-797.4	-1090.9
GCSUFRZ1	1594.1	-366.2	1294.2	S2FX4	2637.7	710.3	-1086.1
GCSUFLZ1	1587.4	386.7	1333.7				
GCSDFRZ1	2339.0	-499.7	1231.7	S2SBRZ1	2589.8	-357.1	1225.5
GCSDFLZ1	2331.0	518.7	1301.5	S2SBLZ1	2587.5	371.0	1086.5
				S2SBRZ2	2612.5	-331.8	-984.3
GCSEBUFRY1	1050.1	-375.8	1236.8	S2SBLZ2	2608.0	370.8	-957.0
GCSEBUFLY1	1052.9	380.3	1279.3				
GCSUFRY1	1568.4	-375.2	1297.4	S2SBRY1	2594.9	-362.8	1180.5
GCSUFLY1	1549.7	387.3	1347.8	S2SBLY1	2586.3	372.8	1127.6
GCSDFRY1	2367.3	-509.0	1238.6	S2SBRY2	2617.2	-354.9	-1016.8
GCSDFLY1	2359.1	524.3	1354.6	S2SBLY2	2636.1	381.5	-1012.8
GCSEBUFTX2	1079.6	370.1	1351.9				
GCSEBUFBX2	1061.2	334.9	-1248.3				
GCSUFTX2	1606.7	379.0	1355.3				
GCSUFBX2	1634.9	361.5	-1248.5				
GCSDFTX2	2393.9	512.3	1384.5				
GCSDFBX2	2333.1	517.3	-1263.5				

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LOCATION	Z	X	Y
S11RZ1	815.4	-181.7	797.6
S11LZ1	817.8	165.4	847.9
S11RZ2	823.6	-180.6	655.4
S11LZ2	825.6	170.6	658.2
S12RZ1	817.7	-180.0	576.4
S12LZ1	822.0	158.5	566.7
S12RZ2	830.4	-178.1	396.0
S12LZ2	833.9	184.1	435.0
S13RZ1	822.1	-175.2	162.1
S13LZ1	822.9	170.3	272.4
S13RZ2	821.3	-176.6	81.5
S13LZ2	822.6	172.5	133.9
S14RZ1	815.3	-170.1	-19.6
S14LZ1	815.0	174.9	-3.1
S14RZ2	833.5	-168.8	-191.4
S14LZ2	830.2	181.4	-154.9
S15RZ1	824.4	-169.7	-357.7
S15LZ1	816.9	178.8	-301.7
S15RZ2	839.6	-149.6	-495.9
S15LZ2	835.8	183.3	-457.8
S16RZ1	829.1	-162.1	-629.2
S16LZ1	826.2	178.1	-563.7
S16RZ2	836.2	-160.7	-744.8
S16LZ2	837.3	198.8	-739.5
PRRRZ1	4208.6	-795.4	2210.6
PRRRZ2	4248.4	-773.9	-2078.7
PRLRZ1	4200.0	1087.6	2237.6
PRLRZ2	4241.2	813.6	-2055.8
PRTX1	4119.1	843.4	2247.1
PRTX2	4199.6	-794.2	2245.1
PRBX1	4229.4	804.0	-2094.6
PRBX2	4241.1	-787.2	-2099.4
PRRY1	4182.4	-773.9	2229.4
PRRY2	4233.6	-755.6	-2072.6
PRLY1	4174.4	763.2	2241.8
PRLY2	4214.5	781.0	-2065.7