



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** J. Segal

**DATE :** Jan 18, 2006

**FROM:** J. Dahlberg

**Checked:**

**#** A1033

### 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 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 labeled PLNPNT are on the surface of a plane with the bold formatted coordinate representing the direction perpendicular to the plane. Included are drawings showing the location of the points listed below.

LOCATION	Z	X	Y
FIDUCIAL_VDCC	862.09	0.00	-862.09
FIDUCIAL_VDCA	-0.02	-304.01	0.02
FIDUCIAL_VDCB	0.02	304.01	-0.02
CORNER_1RB	1151.26	-708.54	-1501.43
CORNER_2RB	1374.31	-708.90	-1500.84
CORNER_3RB	1924.27	-718.06	-1840.35
CORNER_4RB	2142.04	-709.24	-1839.59
CORNER_5RB	2488.25	-710.99	-1837.67
CORNER_6RB	2576.60	-710.91	-1837.37
CORNER_7RB	2682.19	-712.69	-1836.84
CORNER_1RT	1111.46	-728.98	1959.47
CORNER_2RT	1334.32	-731.97	1960.90
CORNER_3RT	1884.35	-726.11	1964.65
CORNER_4RT	2106.00	-732.96	1966.32
CORNER_5RT	2447.85	-727.16	1968.34
CORNER_6RT	2536.60	-710.06	1968.48
CORNER_7RT	2640.48	-724.42	1968.74
CORNER_1LB	1141.65	730.05	-1497.43
CORNER_2LB	1366.30	725.22	-1495.85
CORNER_3LB	1916.82	723.07	-1834.36
CORNER_4LB	2135.04	725.84	-1833.87
CORNER_5LB	2479.32	724.19	-1832.03
CORNER_6LB	2569.00	727.64	-1831.63
CORNER_7LB	2674.31	724.84	-1831.20
CORNER_1LT	1104.57	707.13	1964.59
CORNER_2LT	1327.96	709.19	1965.65

**Jefferson Lab Alignment Group Data Transmittal  
Continued**

Date : Jan 18, 2006

Transmittal # : A1033

LOCATION	Z	X	Y
CORNER_3LT	1877.67	710.44	1969.99
CORNER_4LT	2098.16	707.28	1970.86
CORNER_5LT	2440.50	713.04	1973.64
CORNER_6LT	2533.53	727.38	1973.91
CORNER_7LT	2633.06	715.89	1976.26
CIRCLE_VDCUBR	-2152.22	-510.39	1439.06
CIRCLE_VDCUBL	-2157.15	512.98	1444.26
CIRCLE_VDCDBR	672.06	-512.01	-1384.27
CIRCLE_VDCDBL	670.00	511.02	-1382.01
PLANE_S2MUS	<b>2603.95</b>	2.04	-289.15
PLNPNT_S2MBRBOTT	2627.47	<b>-301.42</b>	-1014.68
PLNPNT_S2MBRTOP	2611.29	<b>-306.97</b>	359.48
PLNPNT_S2MBOTT1	2659.54	-313.22	<b>-1039.35</b>
PLNPNT_S2MBOTT2	2615.81	337.34	<b>-1002.05</b>
PLNPNT_S2MBLBOTT	2620.76	<b>306.56</b>	-995.47
PLNPNT_S2MBLTOP	2603.47	<b>300.56</b>	381.54
PLNPNT_CAUS1	<b>2744.68</b>	-1140.29	-1406.00
PLNPNT_CAUS2	<b>2717.89</b>	-1147.28	826.23
PLNPNT_CAUS3	<b>2728.09</b>	1153.34	-1251.86
PLNPNT_CAUS4	<b>2701.26</b>	1145.99	1030.57
PLNPNT_CABR1	2708.41	<b>-1101.49</b>	-1379.43
PLNPNT_CABR2	2668.84	<b>-1109.33</b>	822.03
PLNPNT_CABL1	2761.81	<b>1109.50</b>	-923.90
PLNPNT_CABL2	2739.98	<b>1104.28</b>	1001.46
PLNPNT_SC3US1	<b>3349.40</b>	-935.42	-984.22
PLNPNT_SC3US2	<b>3330.35</b>	-945.44	716.02
PLNPNT_SC3US3	<b>3337.45</b>	951.18	-959.42
PLNPNT_SC3US4	<b>3315.78</b>	945.02	808.29
PLNPNT_SC3BR1	3365.94	<b>-996.47</b>	-1408.27
PLNPNT_SC3BR2	3360.00	<b>-1004.62</b>	1378.38
PLNPNT_SC3BL1	3347.14	<b>1014.43</b>	-1446.24
PLNPNT_SC3BL2	3316.41	<b>1003.22</b>	1617.82
PLNPNT_SC4US1	<b>3720.61</b>	-1193.18	-1511.38
PLNPNT_SC4US2	<b>3698.09</b>	-1191.77	807.36
PLNPNT_SC4US3	<b>3698.13</b>	1318.55	-1776.95
PLNPNT_SC4US4	<b>3661.26</b>	1227.97	1596.22
PLNPNT_SC4BR1	3727.44	<b>-1122.34</b>	-1664.26
PLNPNT_SC4BR2	3698.89	<b>-1130.47</b>	1622.18
PLNPNT_SC4BL1	3703.26	<b>1144.00</b>	-1606.05
PLNPNT_SC4BL2	3676.05	<b>1135.45</b>	1649.84
PLANE_SPECBL	<b>807.24</b>	720.09	53.75
PLANE_SPECBR	<b>817.29</b>	-717.94	47.97

**Jefferson Lab Alignment Group Data Transmittal  
Continued**

Page 3 of 5

Date : Jan 18, 2006

Transmittal # : A1033

LOCATION	Z	X	Y
PLNPNT_PRUS1	<b>3933.08</b>	-1193.02	-1910.66
PLNPNT_PRUS2	<b>3906.90</b>	-1259.44	1520.63
PLNPNT_PRUS3	<b>3927.83</b>	1245.84	-1944.88
PLNPNT_PRUS4	<b>3895.49</b>	1224.14	1623.55
PLNPNT_PRBR1	3969.25	<b>-760.05</b>	-1927.81
PLNPNT_PRBR2	3944.76	<b>-775.47</b>	1315.38
PLNPNT_PRBL1	4027.94	<b>779.52</b>	-2055.21
PLNPNT_PRBL2	3918.07	<b>766.83</b>	1693.86