Jefferson Lab Alignment Group

Data Transmittal

TO: B. Miller, S. Christo		**DATE:** 26 Oct 2010
FROM: Kelly Tremblay	**Checked:** (jcd)	**# :** B1336

DETAILS:

data : inspection\12gev\hallb\100929a

Four region 2 plates were inspected September 29th, 2010. A coordinate system was established for each plate as instructed by Steve Christo. Each plate has a calculated flatness shown. All units are millimeters.

The data is reported below and also attached with spreadsheet:

hb region2 plate 2010.09.22.xlsx

Plate 201				Plate 301		
Flatness	0.51			Flatness	0.45	
Point	X	Y		Point	X	Y
M_PLANE_TOP	1569.31	185.87		M_PLANE_TOP	1709.97	-175.02
C_LINE_P1-P9	0.00	0.00		C_LINE_P1_P13	0.00	0.00
DATUM B	-33.46	-40.72		DATUM B	-27.30	53.94
P1	0.00	0.00		P1	0.00	0.00
P2	-58.53	144.83		P2	-53.26	-131.89
P3	-95.25	220.14		P3	-78.56	-193.94
P4	-145.17	359.28		P4	-140.60	-345.55
P5	-115.64	162.64		P5	-110.32	-149.32
P6	-202.79	378.29		P6	-198.32	-364.48
P7	2602.71	-30.41		P7	2704.63	-397.62
P8	3042.79	-30.31		P8	3089.74	-399.23
P9	3043.52	0.00		P9	3087.58	-359.03
P10	3059.48	144.82		P10	3071.49	-207.07
P11	3062.56	175.83		P11	3067.79	-175.78
P12	3066.57	207.33		P12	3064.87	-144.91
P13	3083.17	359.33		P13	3049.50	0.00
P14	3085.46	399.22		P14	3049.09	30.27
P15	2700.39	399.30		P15	2608.88	32.29
SL1_1.1	2.50	44.50		SL1_1.2	-6.02	-70.02
SL1_1.2	7.87	82.68		SL1_1.3	-2.90	-108.19
SL1_1.3	13.22	120.88		SL1_2.2	4.13	-51.03
SL1_2.1	12.78	25.42		SL1_2.3	7.20	-89.22
SL1_2.2	18.15	63.61		SL1_3.1	14.18	-31.89

Plate 201				Plate 301		
Point	X	Y		Point	X	Y
SL1_2.3	23.50	101.77		SL1_3.2	17.20	-70.20
SL1_3.1	28.42	44.53		SL1_3.3	20.31	-108.27
SL1_3.2	33.74	82.66		SL1_4.1	24.26	-12.80
SL1_3.3	39.12	120.80		SL1_4.2	27.31	-51.13
SL1_4.1	38.64	25.44		SL1_4.3	30.30	-89.26
SL1_4.2	44.03	63.59		SL1_5.1	37.30	-32.01
SL1_4.3	49.36	101.79		SL1_5.2	40.33	-70.19
SL1_5.1	54.21	44.54		SL1_5.3	43.34	-108.38
SL1_5.2	59.63	82.61		SL1_6.1	47.35	-12.92
SL1_5.3	64.97	120.81		SL1_6.2	50.39	-51.11
SL1_6.1	64.51	25.41		SL1_6.3	53.44	-89.30
SL1_6.2	69.89	63.53		SL1_7.1	60.44	-32.06
SL1_6.3	75.25	101.70		SL1_7.2	63.50	-70.27
SL1_7.1	80.11	44.47		SL1_7.3	66.55	-108.47
SL1_7.2	85.43	82.73		SL1_110.1	1254.45	-43.42
SL1_7.3	90.87	120.82		SL1_110.2	1257.51	-81.61
SL1_110.1	1409.69	25.44		SL1_110.3	1260.51	-119.71
SL1_110.2	1415.07	63.62		SL1_111.1	1264.54	-24.36
SL1_110.3	1420.46	101.77		SL1_111.2	1267.55	-62.52
SL1_111.1	1425.35	44.52		SL1_111.3	1270.46	-100.68
SL1_111.2	1430.72	82.68		SL1_112.1	1277.56	-43.51
SL1_111.3	1436.09	120.84		SL1_112.2	1280.63	-81.71
SL1_112.1	1435.61	25.39		SL1_112.3	1283.63	-119.90
SL1_112.2	1440.99	63.58		SL1_113.1	1287.72	-24.47
SL1_112.3	1446.34	101.76		SL1_113.2	1290.71	-62.59
SL1_113.1	1451.25	44.53		SL1_113.3	1293.68	-100.79
SL1_113.2	1456.65	82.64		SL1_114.1	1300.82	-43.59
SL1_113.3	1461.99	120.85		SL1_114.2	1303.78	-81.76
SL1_114.1	1461.52	25.44		SL1_114.3	1306.80	-119.95
SL1_114.2	1466.90	63.60		SL1_115.1	1310.78	-24.53
SL1_114.3	1472.27	101.72		SL1_115.2	1313.82	-62.73
SL1_115.1	1477.13	44.50		SL1_115.3	1316.87	-100.92
SL1_115.2	1482.49	82.63		SL1_219.1	2516.80	-42.37
SL1_115.3	1487.83	120.85		SL1_219.2	2519.85	-80.45
SL1_219.1	2822.30	44.49		SL1_219.3	2522.99	-118.65
SL1_219.2	2827.68	82.71		SL1_220.1	2526.93	-23.37
SL1_219.3	2832.98	120.81		SL1_220.2	2530.01	-61.53
SL1_220.1	2832.57	25.41		SL1_220.3	2533.10	-99.61
SL1_220.2	2837.96	63.59		SL1_221.1	2540.02	-42.48
SL1_220.3	2843.33	101.77		SL1_221.2	2543.11	-80.63
SL1_221.1	2848.15	44.56		SL1_221.3	2546.06	-118.75

Plate 201				Plate 301		
Point	X	Y		Point	X	Y
SL1_221.2	2853.60	82.69		SL1_222.1	2550.22	-23.34
SL1_221.3	2858.96	120.87		SL1_222.2	2553.23	-61.59
SL1_222.1	2858.40	25.43		SL1_222.3	2556.25	-99.70
SL1_222.2	2863.88	63.63		SL1_223.1	2563.30	-42.55
SL1_222.3	2869.26	101.78		SL1_223.2	2566.33	-80.71
SL1_223.1	2874.09	44.50		SL1_223.3	2569.37	-118.87
SL1_223.2	2879.44	82.64		SL1_224.1	2573.38	-23.48
SL1_223.3	2884.81	120.85		SL1_224.2	2576.42	-61.62
SL1_224.1	2884.36	25.47		SL1_224.3	2579.41	-99.84
SL1_224.2	2889.72	63.58		SL2_224.1	2996.33	-233.02
SL1_224.3	2895.05	101.74		SL2_224.2	3001.88	-273.49
SL2_224.1	2654.37	233.54		SL2_224.3	3007.40	-313.96
SL2_224.2	2657.74	273.99		SL2_223.1	2985.37	-253.19
SL2_224.3	2661.14	314.40		SL2_223.2	2990.92	-293.67
SL2_223.1	2643.77	253.76		SL2_223.3	2996.40	-334.12
SL2_223.2	2647.19	294.16		SL2_222.1	2968.97	-232.91
SL2_223.3	2650.59	334.55		SL2_222.2	2974.46	-273.36
SL2_222.1	2629.82	233.47		SL2_222.3	2979.96	-313.83
SL2_222.2	2633.22	273.88		SL2_221.1	2958.01	-253.11
SL2_222.3	2636.60	314.37		SL2_221.2	2963.54	-293.54
SL2_221.1	2619.27	253.75		SL2_221.3	2969.07	-333.96
SL2_221.2	2622.64	294.14		SL2_220.1	2941.56	-232.81
SL2_221.3	2626.06	334.59		SL2_220.2	2947.09	-273.23
SL2_220.1	2605.27	233.52		SL2_220.3	2952.61	-313.71
SL2_220.2	2608.66	273.94		SL2_219.1	2930.59	-252.96
SL2_220.3	2612.04	314.33		SL2_219.2	2936.14	-293.41
SL2_219.1	2594.66	253.72		SL2_219.3	2941.63	-333.85
SL2_219.2	2598.07	294.14		SL2_115.1	1506.05	-247.05
SL2_219.3	2601.45	334.57		SL2_115.2	1511.53	-287.39
SL2_115.1	1318.54	253.68		SL2_115.3	1517.06	-327.82
SL2_115.2	1321.96	294.14		SL2_114.1	1489.62	-226.68
SL2_115.3	1325.34	334.57		SL2_114.2	1495.11	-267.10
SL2_114.1	1304.68	233.54		SL2_114.3	1500.65	-307.64
SL2_114.2	1308.03	273.90		SL2_113.1	1478.68	-246.90
SL2_114.3	1311.45	314.36		SL2_113.2	1484.11	-287.35
SL2_113.1	1294.05	253.67		SL2_113.3	1489.62	-327.75
SL2_113.2	1297.43	294.09		SL2_112.1	1462.18	-226.60
SL2_113.3	1300.81	334.53		SL2_112.2	1467.74	-267.07
SL2_112.1	1280.09	233.45		SL2_112.3	1473.21	-307.56
SL2_112.2	1283.46	273.88		SL2_111.1	1451.25	-246.74
SL2_112.3	1286.90	314.38		SL2_111.2	1456.78	-287.18

Plate 201				Plate 301		
Point	X	Y		Point	X	Y
SL2_111.1	1269.46	253.71		SL2_111.3	1462.27	-327.67
SL2_111.2	1272.89	294.11		SL2_110.1	1434.79	-226.53
SL2_111.3	1276.31	334.50		SL2_110.2	1440.30	-266.95
SL2_110.1	1255.52	233.51		SL2_110.3	1445.85	-307.35
SL2_110.2	1258.94	273.92		SL2_6.1	10.16	-220.66
SL2_110.3	1262.31	314.34		SL2_6.2	15.67	-261.06
SL2_6.1	-20.49	233.62		SL2_6.3	21.15	-301.45
SL2_6.2	-17.14	273.93		SL2_5.1	-0.81	-240.78
SL2_6.3	-13.82	314.37		SL2_5.2	4.69	-281.23
SL2_5.1	-31.09	253.81		SL2_5.3	10.23	-321.67
SL2_5.2	-27.80	294.20		SL2_4.1	-17.25	-220.48
SL2_5.3	-24.35	334.64		SL2_4.2	-11.81	-260.90
SL2_4.1	-45.07	233.62		SL2_4.3	-6.25	-301.40
SL2_4.2	-41.72	274.03		SL2_3.1	-28.18	-240.69
SL2_4.3	-38.24	314.41		SL2_3.2	-22.66	-281.14
SL2_3.1	-55.67	253.75		SL2_3.3	-17.24	-321.52
SL2_3.2	-52.27	294.21		SL2_2.1	-44.67	-220.41
SL2_3.3	-48.89	334.65		SL2_2.2	-39.13	-260.83
SL2_2.1	-69.63	233.60		SL2_2.3	-33.64	-301.23
SL2_2.2	-66.26	273.97		SL2_1.1	-55.60	-240.56
SL2_2.3	-62.83	314.48		SL2_1.2	-50.12	-281.06
SL2_1.1	-80.22	253.80		SL2_1.3	-44.56	-321.45
SL2_1.2	-76.85	294.20				
SL2_1.3	-73.45	334.66				

Plate 1001				Plate 1002		
Flatness	0.25			Flatness	0.28	
Point	X	Y		Point	X	Y
M_PLANE_TOP	924.73	-96.79		M_PLANE_TOP	977.29	101.14
C_LINE_P1_P2	0.00	0.00		C_LINE_P1_P2	0.00	0.00
DATUMB	-0.34	36.94		DATUMB	-6.56	-36.49
P1	0.00	0.00		P1	0.00	0.00
P2	1837.07	0.00		P2	1830.83	0.00
P4	1848.44	-221.42		P3	-77.66	191.33
P3	-60.37	-190.81		P4	1851.21	191.30
SL2_1.2	-25.28	-157.74		SL1_1.2	11.28	47.36
SL2_1.3	-21.86	-182.59		SL1_1.3	14.52	71.07

Plate 1001				Plate 1002		
Point	X	Y		Point	X	Y
SL2_2.2	-18.55	-145.37		SL1_2.2	17.71	35.51
SL2_2.3	-15.23	-170.16		SL1_2.3	20.95	59.23
SL2_3.1	-11.85	-133.00		SL1_3.1	24.09	23.69
SL2_3.2	-8.53	-157.77		SL1_3.2	27.27	47.35
SL2_3.3	-5.16	-182.59		SL1_3.3	30.57	71.06
SL2_4.1	-5.22	-120.59		SL1_4.1	30.45	11.83
SL2_4.2	-1.83	-145.39		SL1_4.2	33.71	35.53
SL2_4.3	1.52	-170.17		SL1_4.3	36.94	59.22
SL2_5.1	4.85	-132.99		SL1_5.1	40.05	23.68
SL2_5.2	8.22	-157.81		SL1_5.2	43.31	47.40
SL2_5.3	11.58	-182.61		SL1_5.3	46.51	71.04
SL2_6.1	11.50	-120.58		SL1_6.1	46.46	11.84
SL2_6.2	14.91	-145.40		SL1_6.2	49.68	35.53
SL2_6.3	18.30	-170.22		SL1_6.3	52.87	59.20
SL2_7.1	21.61	-133.02		SL1_7.1	56.04	23.66
SL2_7.2	24.93	-157.82		SL1_7.2	59.28	47.38
SL2_7.3	28.30	-182.61		SL1_7.3	62.49	71.06
SL2_110.1	881.15	-120.65		SL1_110.1	877.19	11.87
SL2_110.2	884.48	-145.43		SL1_110.2	880.34	35.51
SL2_110.3	887.85	-170.23		SL1_110.3	883.56	59.18
SL2_111.1	891.18	-133.05		SL1_111.1	886.76	23.70
SL2_111.2	894.54	-157.85		SL1_111.2	889.97	47.36
SL2_111.3	897.89	-182.63		SL1_111.3	893.23	71.07
SL2_112.1	897.86	-120.63		SL1_112.1	893.16	11.88
SL2_112.2	901.20	-145.44		SL1_112.2	896.35	35.52
SL2_112.3	904.60	-170.25		SL1_112.3	899.61	59.25
SL2_113.1	907.89	-133.01		SL1_113.1	902.74	23.69
SL2_113.2	911.26	-157.84		SL1_113.2	905.99	47.39
SL2_113.3	914.64	-182.64		SL1_113.3	909.20	71.06
SL2_114.1	914.57	-120.62		SL1_114.1	909.11	11.84
SL2_114.2	917.93	-145.41		SL1_114.2	912.34	35.56
SL2_114.3	921.28	-170.20		SL1_114.3	915.59	59.24
SL2_115.1	924.61	-133.02		SL1_115.1	918.70	23.67
SL2_115.2	927.97	-157.80		SL1_115.2	921.95	47.37
SL2_115.3	931.34	-182.67		SL1_115.3	925.14	71.05
SL2_219.1	1794.18	-133.12		SL1_219.1	1749.47	23.68
SL2_219.2	1797.51	-158.00		SL1_219.2	1752.64	47.36
SL2_219.3	1800.88	-182.73		SL1_219.3	1755.90	71.03
SL2_220.1	1800.84	-120.70		SL1_220.1	1755.80	11.82
SL2_220.2	1804.22	-145.55		SL1_220.2	1759.04	35.53
SL2_220.3	1807.58	-170.35		SL1_220.3	1762.26	59.21

Plate 1001				Plate 1002		
Point	X	Y		Point	X	Y
SL2_221.1	1810.92	-133.06		SL1_221.1	1765.44	23.70
SL2_221.2	1814.29	-157.88		SL1_221.2	1768.65	47.37
SL2_221.3	1817.62	-182.75		SL1_221.3	1771.83	71.02
SL2_222.1	1817.57	-120.69		SL1_222.1	1771.76	11.81
SL2_222.2	1820.94	-145.52		SL1_222.2	1775.02	35.53
SL2_222.3	1824.32	-170.34		SL1_222.3	1778.24	59.19
SL2_223.1	1827.62	-133.11		SL1_223.1	1781.44	23.71
SL2_223.2	1831.00	-157.92		SL1_223.2	1784.61	47.36
SL2_223.3	1834.34	-182.73		SL1_223.3	1787.86	71.06
SL2_224.1	1834.29	-120.72		SL1_224.1	1787.80	11.84
SL2_224.2	1837.66	-145.50		SL1_224.2	1791.01	35.52
SL2_224.3	1841.00	-170.33		SL1_224.3	1794.20	59.19
SL1_224.1	1596.91	-11.83		SL2_224.1	1622.36	121.01
SL1_224.2	1598.84	-35.51		SL2_224.2	1624.38	145.85
SL1_224.3	1600.73	-59.21		SL2_224.3	1626.34	170.60
SL1_223.1	1590.69	-23.69		SL2_223.1	1615.88	133.46
SL1_223.2	1592.59	-47.42		SL2_223.2	1617.83	158.21
SL1_223.3	1594.52	-71.07		SL2_223.3	1619.82	183.00
SL1_222.1	1582.56	-11.92		SL2_222.1	1607.32	121.01
SL1_222.2	1584.49	-35.53		SL2_222.2	1609.33	145.81
SL1_222.3	1586.43	-59.21		SL2_222.3	1611.29	170.60
SL1_221.1	1576.41	-23.76		SL2_221.1	1600.86	133.44
SL1_221.2	1578.32	-47.42		SL2_221.2	1602.83	158.22
SL1_221.3	1580.23	-71.11		SL2_221.3	1604.84	183.00
SL1_220.1	1568.27	-11.86		SL2_220.1	1592.28	120.98
SL1_220.2	1570.18	-35.60		SL2_220.2	1594.32	145.80
SL1_220.3	1572.05	-59.35		SL2_220.3	1596.35	170.64
SL1_219.1	1562.08	-23.72		SL2_119.1	1585.82	133.41
SL1_219.2	1563.98	-47.48		SL2_119.2	1587.85	158.23
SL1_219.3	1565.86	-71.15		SL2_119.3	1589.85	183.01
SL1_115.1	816.23	-23.62		SL2_115.1	805.18	133.50
SL1_115.2	818.15	-47.27		SL2_115.2	807.16	158.25
SL1_115.3	820.09	-70.97		SL2_115.3	809.15	182.99
SL1_114.1	808.11	-11.75		SL2_114.1	796.65	121.00
SL1_114.2	810.02	-35.43		SL2_114.2	798.66	145.83
SL1_114.3	811.92	-59.16		SL2_114.3	800.64	170.62
SL1_113.1	801.91	-23.61		SL2_113.1	790.15	133.49
SL1_113.2	803.83	-47.27		SL2_113.2	792.15	158.24
SL1_113.3	805.73	-70.96		SL2_113.3	794.13	183.03
SL1_112.1	793.77	-11.75		SL2_112.1	781.63	121.08
SL1_112.2	795.70	-35.43		SL2_112.2	783.63	145.87

Plate 1001				Plate 1002		
Point	X	Y		Point	X	Y
SL1_112.3	797.58	-59.13		SL2_112.3	785.62	170.65
SL1_111.1	787.57	-23.59		SL2_111.1	775.10	133.43
SL1_111.2	789.46	-47.27		SL2_111.2	777.10	158.19
SL1_111.3	791.36	-70.99		SL2_111.3	779.12	183.01
SL1_110.1	779.44	-11.76		SL2_110.1	766.62	121.04
SL1_110.2	781.35	-35.43		SL2_110.2	768.61	145.85
SL1_110.3	783.23	-59.19		SL2_110.3	770.63	170.65
SL1_7.1	41.77	-23.61		SL2_7.1	-5.47	133.45
SL1_7.2	43.70	-47.34		SL2_7.2	-3.47	158.23
SL1_7.3	45.58	-70.97		SL2_7.3	-1.48	183.02
SL1_6.1	33.63	-11.74		SL2_6.1	-13.96	121.02
SL1_6.2	35.55	-35.51		SL2_6.2	-11.98	145.82
SL1_6.3	37.47	-59.14		SL2_6.3	-9.95	170.63
SL1_5.1	27.43	-23.63		SL2_5.1	-20.48	133.47
SL1_5.2	29.33	-47.30		SL2_5.2	-18.49	158.18
SL1_5.3	31.24	-71.04		SL2_5.3	-16.51	183.03
SL1_4.1	19.30	-11.73		SL2_4.1	-29.03	121.07
SL1_4.2	21.20	-35.39		SL2_4.2	-27.01	145.83
SL1_4.3	23.10	-59.11		SL2_4.3	-25.03	170.64
SL1_3.1	13.09	-23.57		SL2_3.1	-35.53	133.45
SL1_3.2	14.97	-47.25		SL2_3.2	-33.54	158.29
SL1_3.3	16.89	-70.93		SL2_3.3	-31.53	183.08
SL1_2.2	6.86	-35.38		SL2_2.2	-41.99	145.84
SL1_2.3	8.76	-59.10		SL2_2.3	-39.97	170.66
SL1_1.2	0.64	-47.29		SL2_1.2	-48.47	158.26
SL1_1.3	2.54	-70.93		SL2_1.3	-46.55	183.03