



Jefferson Lab Alignment Group

Data Transmittal

TO: P. Wang, D. Gaskell, S. Wood

DATE: 13 Jul 2010

FROM: J. Dahlberg

Checked:

: C1302

DETAILS:

Data: Insp\HallC\Qweak\100608a

Below are the results from the Qweak scanner survey carried out on June 10th, 2010. The scanner centerline is derived from an intersection of the 6 outside edges. The corresponding fiducial point was measured at the same time to define a relative offset. A 2nd measurement of the scanner center and fiducial point was taken after the calibration to check for repeatability. Note that this 2nd set was not in the same location as the first set and only represents a relative difference. The calibration measurements R and L below are to the fiducial point at chosen locations identified by the scanner operator. The coordinate system is centered on the ideal R3 rotator position which is 5117.73 millimeters downstream (+Z) from ideal Qtorr centerline. A +X is to the beam left, and a +Y is up.

POINT NAME	Z	X	Y
Scanner CL	800.22	192.08	-3191.55
Fiducial	758.67	163.38	-2349.68
L1_HOME	759.31	497.46	-2349.73
L2	758.62	156.14	-2349.73
L3	758.21	-184.68	-2349.17
L4 (Bad point, Scanner was still in motion. Measured again as R2 below)			
L5	758.71	-526.06	-2437.65
L6	758.92	-184.77	-2438.60
L7	759.48	156.37	-2439.02
L8	760.09	497.70	-2439.01
L9	760.87	497.93	-2528.31
L10	760.33	156.48	-2528.32
L11	759.63	-184.73	-2527.89
L12	759.10	-526.24	-2527.08
L13	759.55	-526.16	-2616.38
L14	760.34	-184.51	-2617.19
L15	761.18	156.72	-2617.61
L16	761.62	498.17	-2617.60
Repeats R1 (home)	759.31	497.47	-2349.70
R2	758.15	-526.37	-2348.47
R3	759.56	-526.14	-2616.36
R4	761.61	498.17	-2617.59
2 nd R2	758.16	-526.36	-2348.46
Scanner CL2	800.07	60.74	-3191.51
Fiducial 2	758.43	32.29	-2349.57