



Jefferson Lab Alignment Group

Data Transmittal

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Checked: JCD

: C1313

DETAILS:

data: step2b\bsylqw9c\100526A,100526B,100519A,100527A) & calc\hallc\qweak\beamline_bpm

The data below shows the final step2B locations for the quadruples and dipoles in line 3C downstream of the shielding wall to the end of the Moller Quads. The surveys were performed between May 26th, and May 27th, 2010. Note the Moller data was previously distributed in memo C1305 and is included here for clarity.

Additionally, the upstream and downstream flange locations for the Unser girder, containing the 3H05 BCMS are displayed.

dx,dy and dz are the locations in the beam following system. A +x indicates the location is to the beam left, a +y indicates the location is high, and a +z indicates the component is downstream of ideal. A + yaw angle is counter clockwise looking from above, a + pitch is ccw looking from the beam right, and a + roll angle is cw looking from upstream. The QA quads are fixture magnets and the delta yaw, pitch and roll cannot be determined.

Component	X Fnd (m)	Y Fnd (m)	Z Fnd (m)	dx (mm)	dy (mm)	dz (mm)	DYaw °	dPitch °	dRoll °
QA3C17	-98.8137	99.9782	-354.6797	-0.1	0.2	0.2			
QA3C18	-99.8954	99.9780	-356.0892	-0.1	0.0	-0.1			
QA3C19	-100.6938	99.9781	-357.1292	0.1	0.1	0.0			
MC3P01	-101.6912	99.9781	-358.4291	-0.1	0.1	-0.1	-0.0003	0.0037	0.0060
MC3P02	-103.6431	99.9779	-360.9704	0.0	-0.1	-0.1	0.0042	0.0006	-0.0052
MC3P03	-105.7418	99.9779	-363.7034	0.2	-0.1	-0.2	0.0064	0.0083	-0.0112
MC3P04	-107.6929	99.9780	-366.2450	0.0	0.0	-0.1	0.0005	-0.0043	0.0046
QA3C20	-109.1270	99.9780	-368.1130	0.1	0.0	0.1			
QA3C21	-109.9538	99.9780	-369.1897	0.0	0.0	-0.3			
MOLLER	-110.6178	99.9782	-370.0540	0.3	0.2	0.1	0.0106	0.0433	0.1092
QF3M01	-111.1358	99.9781	-370.7291	0.0	0.1	2.6	0.0007	-0.0335	0.0284
CO3M01	-111.6901	99.9783	-371.4512	-0.1	0.3	4.3	-0.0292	-0.0086	0.0590
QE3M02	-112.2574	99.9778	-372.1913	-0.8	-0.2	-2.8	-0.0039	0.0309	-0.0080
QE3M03	-113.0715	99.9779	-373.2504	-0.1	-0.1	-0.1	-0.0188	0.0189	-0.0189
Unser Flange									
Upstream	-120.0801	99.9829	-382.3793	-0.4	0.2	n/a			
Downstream	-120.7614	99.9863	-383.2669	-0.7	0.1	n/a			