



Jefferson Lab Alignment Group

Data Transmittal

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DATE: 07 Nov 2014

FROM: Steve Hardisty

Checked: JMW

: A1585

DETAILS:

Data: data\step2b\bsy_1C_12\141015A
data\step2b\bsy_1C_12\141016A
data\step2b\bsy_1C_12\141017A

Below are the results from the Line A downstream of the shield wall bpm, beam pipe and Laser Table surveys. The as set locations are in the CEBAF machine coordinate system in meters. The beam following coordinates (BFS) are the deltas from the ideal coordinates in millimeters. A +X is to the beam left, and a +Y is up. BPM's measured directly list the upstream and downstream ends. The photon plug was measured at the upstream face.

NAME	AS-SET			BFS	
	X[m]	Y[m]	Z[m]	dx{mm}	dy{mm}
IPM1P01A U	-55.72075	99.89052	-363.37024	2.19	-1.00
IPM1P01A D	-55.57817	99.88168	-363.55549	1.84	-0.38
IPM1P02A U	-53.91167	99.80917	-365.72487	0.36	2.84
IPM1P02A D	-53.78247	99.80978	-365.89547	1.71	3.45
US MIRROR 1	-53.71457	99.80944	-365.98454	2.07	3.11
US MIRROR 2	-53.67342	99.8104	-366.03868	2.38	4.07
DS MIRROR 1	-53.1201	99.81035	-366.75861	1.66	4.02
DS MIRROR 2	-53.07885	99.80908	-366.81267	1.84	2.75
IPM1P02B U	-53.01375	99.80935	-366.89633	1.13	3.02
IPM1P02B D	-52.88742	99.80933	-367.05905	-0.03	3.00
IPM1P03A U	-51.23912	99.89085	-369.2056	-0.98	2.03
IPM1P03A D	-51.15711	99.89656	-369.31033	-2.29	1.70
PHOTON PLUG	-50.12751	99.80586	-370.6546	-0.79	-0.47