



Jefferson Lab Alignment Group

Data Transmittal

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Checked: (cjc)

: C1346

DETAILS:

data: step2b\bsy\qw9c\101111a

Two BPMs, IPM3H08 and IPM3H09B in the Qweak line were replaced and aligned on November 11th, 2010. The 'G-zero' girder that contains BPMs IPM3H09 and IPM3H09B, was found to be approximately 5 millimeters too far beam right. This girder was realigned using the BPMs and two available alignment targets (GZero10/24).

The data below shows the as-set centers of the BPMs and the 2 targets, in the CEBAF coordinate system (meters). The deltas are also shown in the local beam following system (millimeters) as the difference from the ideal position.

A -dx indicates the found location is to the beam right, a -dy indicates the position is below ideal and a -dz indicates it is upstream from ideal.

Component	X Fnd (M)	Y Fnd (M)	Z Fnd (M)	dX (mm)	dY (mm)	dZ (mm)
IPM3H08	-125.1505	99.9881	-388.9814	0.6	-0.2	24.5
IPM3H09	-125.9157	99.9877	-389.9792	-0.1	-0.6	-0.5
IPM3H09B	-127.4680	99.9880	-392.0018	-0.6	-0.3	-1.6
GZero-10	-127.7578	99.7935	-392.0469	-0.1	-0.1	1.9
GZero-24	-126.0097	99.8246	-389.8268	-0.4	-0.2	1.8