Jefferson Lab Alignment Group

Data Transmittal

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FROM: J. Dahlberg	**Checked:**	**# :** C1333

DETAILS: Data: Step2B\BSY\QW9C\100923a

Below are the results from the final survey carried out on the line C Compton electron detector, BPM's, and photon detector. The first set of data is in a beam following system showing the offsets in millimeters from ideal. A +X is to the beam left, a + Y is up. The Z values are relative to the Compton laser table center with +Z downstream. The second set of data lists the BPM's in CEBAF machine coordinates.

Note: During the calibration of the electron detector prior to installation, the encoder values were recorded with the detector positioned in ideal locations based on the cylinder supporting it (refer to DT# C1317). The ideal location of the bottom of the detector in running position should be 5 millimeters above the beam line. The 1.34 vertical offset in the as-set position places the detector at approximately 6.3 mm above the beam line.

LOCATION	Z	X	Y
IPM3P02A	-679.59	0.55	4.44
IPM3P02B	544.08	1.04	0.18
E det. cylinder		2.02	1.34
Flange upst from photon det.	3388.93	-1.33	-1.06

LOCATION(CEBAF)	Z	X	Y
IPM3P02A	-361.79970	-104.27901	99.41247
IPM3P02B	-362.76799	-105.02458	99.40814