



Jefferson Lab Alignment Group

Data Transmittal

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Checked:

L988

M:\Step2B\NLNC\NL27\050209a
M:\Step2B\NECR\NE2\050214a

DETAILS:

Below are the results of the recent surveys of beam position monitors at the end of the north linac, and north east spreader. These include the two newly installed test stand BPMs IPM1L27A located upstream of the QB1L28 girder, and IPM1S00A located upstream of the QB1S01 girder. Upstream and downstream positions have been calculated for each BPM. Locations in the accelerator coordinate system are given, together with deviations from ideal location in a right handed beam following system (+ve X is beam left, +ve Y is up). The Z coordinates are approximate since they represent where the data points were taken, not the ends of the can.

Name	Approx. Z(m)	X (m)	Y (m)	DX (mm)	DY (mm)
IPM1L27_U	87.442	80.6005	100.0003	0.50	0.30
IPM1L27_D	87.608	80.6006	100.0003	0.63	0.27
IPM1L27A_U	88.985	80.6014	99.9985	1.36	-1.52
IPM1L27A_D	89.176	80.6002	99.9990	0.22	-1.04
IPM1L28_U	89.867	80.6005	100.0001	0.47	0.13
IPM1L28_D	90.021	80.6008	100.0002	0.78	0.15
IPM1S00A_U	96.426	80.5993	101.3333	-0.70	-0.03
IPM1S00A_D	96.557	80.5992	101.3332	-0.81	-0.10
IPM1S01_U	96.635	80.5987	101.3331	-1.33	-0.22
IPM1S01_D	96.759	80.5981	101.3328	-1.87	-0.56