



Jefferson Lab Alignment Group

Data Transmittal

TO: C. Perdrisat

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Checked:

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DETAILS:

Data: Fiduc\HallC\GeP\070312A

Below are the results from the BigCal fiducialization survey performed on March 12, 2007. A right handed coordinate system was established using the four bushings on the side of the detector. A +X is to the beam left, a +Y is up, and a +Z is downstream. An average of the four bushings defines the XY plane which is an ideal offset of 19.05 mm from the upstream face of the detector. An offset of 699.41 mm from the beam left bushings was used to set the roll and define the horizontal center, and a distance of 760.35 mm from the bottom bushings defines the vertical center. Note that an additional offset of 7.94 mm is applied to the X coordinates on the bushings below to account for the length of the survey target. In addition, the centerline was scribed at the upstream and downstream bottom edges of the support frame.

LOCATION	Z	X	Y
Bushing A	19.66	707.35	-760.04
Bushing B	18.44	707.35	1018.52
Bushing C	19.66	-711.28	1017.55
Bushing D	18.44	-711.94	-760.66
Fiducial TBA	-30.88	1502.62	-1482.73
Fiducial TBB	-510.12	1156.01	1385.09
Fiducial TBC	1849.14	1709.54	1423.32
Fiducial TBD	1458.50	1503.07	-1477.91
Fiducial TBE	4442.91	1495.36	-1465.44
Fiducial TBF	4431.04	-1523.17	-1461.02
Fiducial TBG	1830.08	-1713.97	1382.50
Fiducial TBH	1455.60	-1514.14	-1476.16
Fiducial TBJ	-42.89	-1508.07	-1479.83
Fiducial TBK	-515.43	-1131.26	1377.85