| Jefferson Lab Alignment Group Data Transmittal |  |  |
| :---: | :---: | :---: |
| TO: A. Narayan |  | DATE: 19 Jun 2012 |
| FROM: J. Dahlberg | Checked: JMS | \# : C1464 |
| DETAILS: Data: Step2blBSYQW9C\120529a, Fiduc\|HallC\Qweak\110826a |  |  |
| Below are the results from the Line C Compton electron detector post run survey. The locations listed below are relative to the ideal machine coordinate of dipole MC3P03 which is 570 millimeters above the Compton beam. The values are derived from the original calibration data measured in August 2011 which has been transformed into the as-found position in the beam line. $\mathrm{A}+\mathrm{X}$ is to the beam left, $a+Z$ is downstream, and $a+Y$ is up. Values are in millimeters. Included below are the constructed points at which the ideal beam center intersects the detector downstream from MC3P03. |  |  |
| DESCRIPTION LOCATION |  |  |
| Bottom center of detector assembly (upper position) Bottom of P1 at EOT+ | X: 0.06, Y: -15.40, Z: 2334.74 |  |
| Bottom of P2 at EOT+ | Y: -158.86 |  |
| Bottom of P3 at EOT+ | Y: -157.82 |  |
| Bottom of P4 at EOT+ | Y: -154.94 |  |
| Bottom of P1 at EOT- | Y: 35.74 |  |
| Bottom of P4 at EOT- | Y: 42.07 |  |
| Bottom of P1 at home 7. | Y: -61.24 |  |
| Bottom of P2 at home 7. | Y: -58.95 |  |
| Bottom of P3 at home 7. | Y: -57.52 |  |
| Bottom of P4 at home 7. | Y: -54.91 |  |
| Bottom of P1 at home 7 repeat. | Y: -61.26 |  |
| Bottom of P4 at home 7 repeat. | Y: -54.92 |  |
| Bottom beam left side of P4 at home 7 roll check. | X: 14.32, Y: -54.87 |  |
| Bottom beam right side of P4 at home 7 roll check. | $X:-13.40, Y:-55.59$ |  |
| Bottom beam left side of P3 at home 7 roll check. | X: 15.72, Y: -57.49 |  |
| Bottom beam right side of P3 at home 7 roll check. | X: -16.49, Y: -57.75 |  |
| Bottom beam left side of P2 at home 7 roll check. | X: 17.49, Y: -58.91 |  |
| Bottom beam right side of P2 at home 7 roll check. | $X:$-14.02, Y: -59.63 |  |
| Bottom beam left side of P1 at home 7 roll check. | X: 10.23, Y: -61.18 |  |
| Bottom beam right side of P1 at home 7 roll check. | X: -6.59, Y: -61.37 |  |
| Right side of stack frame in running position. | X: -39.98 |  |
| Left side of stack frame in running position. | X: 39.88 |  |
| Bottom of P1 at running position. | Y: -149.49 |  |
| Bottom of P2 at running position. | Y: -147.35 |  |
| Bottom of P3 at running position. | Y: -145.81 |  |
| Bottom of P4 at running position. | Y: -143.15 |  |
| Bottom of P1 at running position repeat | Y: -149.53 |  |
| Bottom of P4 at running position repeat | Y: -143.18 |  |



## LOCATIONS WHERE BEAM INTERSECTS THE DETECTOR DOWNSTREAM FROM MC3P03 CENTER

## DESCRIPTION

Upstream outside frame at end of travel
Downstream side P4 in running position
Upstream frame in running position
Upstream side P1 in position $1,+2$ millimeters
Downstream side P1 in position $1,+2$ millimeters Upstream side P4 in position 1, +2 millimeters
Downstream side P4 in position 1, +2 millimeters

## LOCATION

Y: -158.44, Z: 2311.77
Y: -151.80, Z: 2349.01
Y: -157.95, Z: 2314.53
Y: -157.07, Z: 2319.49
Y: -156.56, Z: 2322.32
Y: -151.56, Z: 2350.37
Y: -151.06, Z: 2353.16

