



Jefferson Lab Alignment Group

Data Transmittal

TO: M. Jones, N. Okay, S. Wood

DATE: 17 Dec 2008

FROM: J. Dahlberg

Checked:

: C1205

DETAILS:

DATA: STEP2B\HALLC\SANE\081016A, 081027A\081216A-B
STEP2B\HALLC\Target\081216A

Below are the results from the surveys carried out on the Hall C 4.7 GeV chicane, polarized target rotated at 80 degrees, and the SANE components at 40 degrees off the main beam line. Values are relative to ideal beam position with a +X to the beam left, a +Z downstream, and a +Y up. A + yaw is counter clockwise looking from above, a + pitch is ccw looking from the beam right, and a + roll is cw looking from upstream. Values are in millimeters and degrees. The Lucite detector is derived from the original fiducial data before it was disassembled, the Z value is from the target center.

| LOCATION | Z | X | Y | YAW | PITCH | ROLL |
|-------------|--------|------|------|--------|--------|--------|
| IPM3C20 | | 0.0 | -0.1 | | | |
| IPM3H00 | | 0.1 | 0.3 | | | |
| BZ3H05 | 0.8 | 0.0 | 0.1 | 0.051 | -0.021 | 0.020 |
| BCM | | 0.0 | -0.5 | | | |
| BPM1 | | 0.3 | 0.0 | | | |
| SH1 | | 0.4 | 0.5 | | | |
| Yag | | 0.5 | 0.4 | | | |
| BPM2 | | -0.2 | 0.0 | | | |
| SH2 | | 0.1 | -0.2 | | | |
| Sem | | 0.0 | -0.3 | | | |
| Target | 0.4 | -0.1 | -0.5 | -0.011 | -0.014 | -0.027 |
| Hodoscope | -11.1 | 0.1 | -0.8 | -0.076 | -0.709 | -0.001 |
| Cerenkov | 3.9 | -0.3 | -4.4 | 0.087 | 0.106 | 0.057 |
| Lucite det. | 2535.7 | 3.3 | -9.0 | -1.776 | -0.412 | -0.015 |
| BigCal det. | 4.2 | 4.5 | -2.0 | 0.019 | -0.223 | 0.017 |