



Jefferson Lab Alignment Group

Data Transmittal

TO: Joe Grames, Paul Gueye

DATE: 13 Jun 2012

FROM: James Dahlberg

Checked:

: L1462

DETAILS:

data: step2b\inj\120524A

Below are the results from the May 23/24th, 2012 PEPP0 survey. The coordinate system is centered on a point 1150.82 mm downstream from the ideal location of the QJ0L02A quad. The machine coordinate of the origin is shown for reference. The coordinate system is rotated about the Y axis 25 degrees for points along the PEPP0 beam line. A +X is to the beam left, a + Z is downstream, and a +Y is up. Values are in millimeters.

LOCATION (MAIN BEAM)

| | X | Y | Z |
|------------|----------|----------|----------|
| IPM0L01 US | 0.02 | 0.23 | -5163 |
| IPM0L01 DS | 0.41 | 0.38 | -4921 |
| IPM0L02 US | 0.15 | 0.92 | -1589 |
| IPM0L02 DS | 0.18 | 0.45 | -1348 |
| IBC0L02 US | -0.18 | 0.30 | -790 |
| IBC0L02 DS | -0.26 | -0.21 | -552 |
| MBV0L021 | 0.28 | 0.30 | -0.03 |
| IPM0L03 US | 0.03 | -0.47 | 4233 |
| IPM0L03 DS | -0.61 | -0.31 | 4474 |

LOCATION (PEPP0)

| | X | Y | Z |
|------------------------|----------|----------|----------|
| IPM5D00 US | -0.12 | -0.24 | 825 |
| IPM5D00 DS | -0.69 | -0.68 | 952 |
| IPM5D01 US | -0.83 | -0.80 | 1278 |
| IPM5D01DS | -1.03 | -0.10 | 1421 |
| ITG5D01 TOP FLANGE | 2.47 | 265.49 | 1540 |
| MPC5D02 US | 0.27 | 0.47 | 1574 |
| MPC5D02 DS | 1.21 | 0.64 | 1650 |
| SPEC. US PIPE | 0.18 | 0.13 | 1667 |
| REG 3 US FLANGE | -456.14 | -0.20 | 2015 |
| MPT5D04 US | -456.49 | -0.43 | 2235 |
| MPT5D04 DS | -456.51 | -0.38 | 2363 |
| REG 3 DS FLANGE | -456.68 | -0.40 | 2628 |
| MPA5D05 US | -456.50 | -0.25 | 2845 |
| MPA5D05 DS | -456.60 | -0.10 | 3019 |
| IFA5D04 BOT LEFT SIDES | -376.62 | -80.42 | |

MACH. ORIGIN (M): X 60080.60000 Y 21000.00520 Z 79756.74182

CHICANE TOP PLATE: **PITCH** 0.009 deg. ccw looking from beam right.

ROLL 0.048 deg. ccw looking from upstream.