



Jefferson Lab Alignment Group

Data Transmittal

TO: T. Whitlatch, A Barnes

DATE: 12 Nov 2015

FROM: J. Dahlberg

Checked:

: D1682

DETAILS:

Below are the results from the Nov 11th survey carried out on the Hall D Tagger magnet and microscope, and hodoscope. Mechanical coordinates are ZXY format in meters relative to machine center.

HDTAGG Center of pole.

Mechanical 305.38864 80.30205 104.70000 (ideal)
 Mechanical 305.38838 80.30233 104.69937 (found)

 Delta (mm) -0.26 0.28 -0.63 (locations)
 Delta (mm) -0.29 0.25 -0.63 (beam following)

 YawPitchRoll -6.5000 0.0000 0.0000 (ideal)
 YawPitchRoll -6.4992 0.0034 0.0003 (found)
 Delta 0.0008 0.0034 0.0003 (YawPitchRoll)

HDMICR Upstream detector upstream edge 5mm down from top.

Mechanical 306.52356 79.43323 104.70000 (ideal)
 Mechanical 306.52268 79.43367 104.69879 (found)

 Delta (mm) -0.88 0.44 -1.21 (locations)
 Delta (mm) -0.93 0.31 -1.21 (beam following)

 YawPitchRoll -8.0500 0.0000 0.0000 (ideal)
 YawPitchRoll -8.0438 0.0183 -0.0779 (found)
 Delta 0.0062 0.0183 -0.0779 (YawPitchRoll)

As found hodoscope holes on support plate in mechanical coordinates.

LOCATION	Z	X
P4_H136	307.47386	79.12581
P4_H139	307.54885	79.11531
P4_H142	307.61186	79.10641
P4_H145	307.67286	79.09784
P5_H148	307.75303	79.08298
P5_H151	307.81501	79.07417
P5_H154	307.86912	79.06824
P5_H157	307.92242	79.06274