



Jefferson Lab Alignment Group

Data Transmittal

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DATE: 11/10/2016

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Checked:

: A1750

DETAILS:

data : aalign\hadron\2016\H111016B

Below are the results from the survey of the right spectrometer on November 10th, 2016. This is the second survey on November 10th, of the right spectrometer. The horizontal pointing value shows how much the central axis of the spectrometer misses the ideal target. This value is perpendicular to the spectrometer axis, not along the beam line. For the vertical pointing, a positive value indicates that the spectrometer is pointing above the target.

A graphical sketch is shown at the end of this transmittal

===== RESULTS ===== H111016B

The central ray of the spectrometer is at 48.666 degrees
The central ray is missing the defined target center by -3.17 [mm] Upstream
and -1.63 mm vertically [positive value is up]

If the offset is corrected by secondary alignment, the spectrometer will be at 48.645 degrees

To achieve this optimal setting
make the following adjustments:
spectrometer will be at 48.645 degrees
Horizontal corrections:
Move rear jacks along tangent -3.23 mm Upstream

9 Par Aposter Val : 0.25 (mm)
No 3DD output file available to report std. dev

Scam Direction

H111016B

-  Beam-Spec Intercept Point
-  Beam-Spec Perpendicular Point
-  Spectrometer Projected Target Point
-  Straight-Ahead Target Point [ideal]

angles: delta : 48.66643 [degrees]
beam : 142.49998 [degrees]
spectrometer: 93.83355 [degrees]

perpendicular distance : 3.173 [mm]
target - intersect dis : 4.226 [mm]
found target - intersect dis : 2.879 [mm]
Spectrometer is -1.63 lower than ideal target [mm]

-  Spectrometer Line
-  Straight-Ahead Beam
-  Perpendicular line

