

Jefferson Lab Alignment Group

Data Transmittal

TO: J. Butler, J. Gomez, C. Keppel, D. Higginbotham DATE: 05/14/2018

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DETAILS:

data: aalign\electron\2018\E051418A & hadron\2018\H051418A

Below are the results from the survey of the left and right spectrometers on May, 14, 2018. 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

The central ray of the spectrometer is at 30.000 degrees

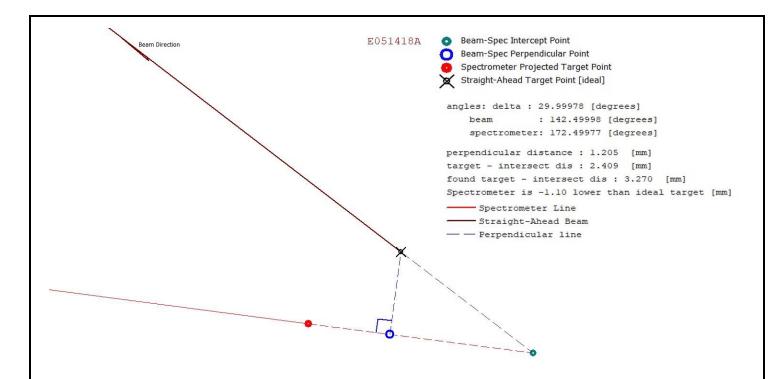
The central ray is missing the defined target center by 1.21 [mm] Downstream and -1.10 mm vertically [positive value is up]

If the offset is corrected by secondary alignment, the spectrometer will be at 30.008 degrees

To achieve this optimal setting make the following adjustments: spectrometer will be at 30.008 degrees Horizontal corrections:

Move rear jacks along tangent 1.23 mm Downstream

9 Par A posteriori value : 0.13 (mm)



======== H051418A

The central ray of the spectrometer is at 42.027 degrees

The central ray is missing the defined target center by 4.03 [mm] Downstream and -1.79 mm vertically [positive value is up]

If the offset is corrected by secondary alignment, the spectrometer will be at 42.000 degrees

To achieve this optimal setting make the following adjustments: spectrometer will be at 42.000 degrees Horizontal corrections:

Move rear jacks along tangent -4.10 mm Downstream

9 Par A posteriori value: 0.23 (mm)

