

## Jefferson Lab Alignment Group

## **Data Transmittal**

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**DETAILS:** 

data: aalign\electron\2018\E050218A&E050218B

Below are the results from two surveys of the left spectrometer on May, 02, 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. E050218A is an as-found, E050218B is an as-set.

A graphical sketch is shown at the end of this transmittal

======== E050218A

The central ray of the spectrometer is at -17.808 degrees

The central ray is missing the defined target center by 1.45 [mm] Downstream and -1.02 mm vertically [positive value is up]

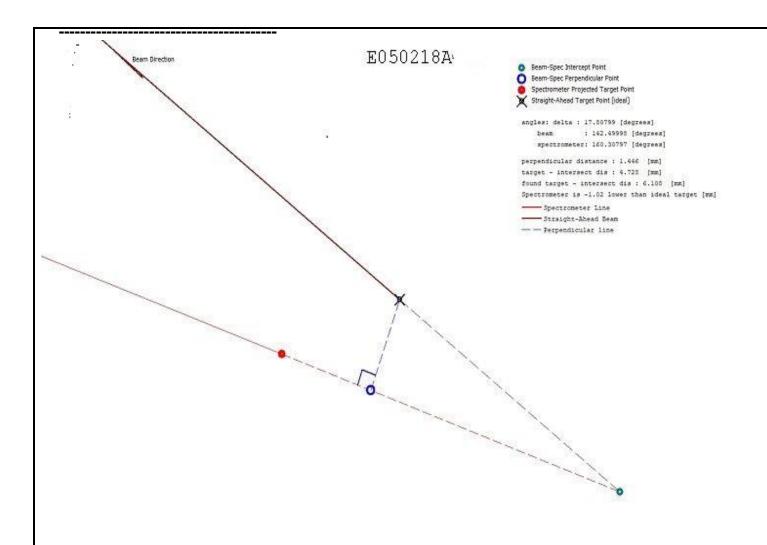
If the offset is corrected by secondary alignment, the spectrometer will be at -17.818 degrees

To achieve this optimal setting make the following adjustments: spectrometer will be at -17.818 degrees Horizontal corrections:

Move rear jacks along tangent -1.48 mm Downstream

9 Par A posteriori value: 0.15 (mm)

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======== E050218B

The central ray of the spectrometer is at -15.007 degrees

The central ray is missing the defined target center by 1.34 [mm] Downstream and -1.40 mm vertically [positive value is up]

If the offset is corrected by secondary alignment, the spectrometer will be at -15.016 degrees

To achieve this optimal setting make the following adjustments: spectrometer will be at -15.016 degrees Horizontal corrections:

Move rear jacks along tangent -1.36 mm Downstream

9 Par A posteriori value : 0.17 (mm)

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