



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** B. Sawatzky, G. Smith, A. Camsonne

**DATE:** 02/26/2016

**FROM:** Chris Curtis

**Checked:**

**# :** A1700

**DETAILS:**

Data: Aalign\Electron&sh\2016\E022316a & H022316a

Below are the results from the survey of the left spectrometer on Feb 23, 2016. 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.

===== RESULTS ===== E022316A

The central ray of the spectrometer is at -16.632 degrees

The central ray is missing the defined target center by -1.39 [mm] Upstream  
and -1.04 mm vertically [positive value is up]

If the offset is corrected by secondary alignment, the spectrometer will be at -16.641 degrees

To achieve this optimal setting make the following adjustments:

Horizontal corrections: Move rear jacks along target -1.41 mm Upstream

9 Par Aposter Val : 0.14 (mm)

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===== RESULTS ===== H022316A

The central ray of the spectrometer is at 48.669 degrees

The central ray is missing the defined target center by -3.79 [mm] Upstream  
and -1.16 mm vertically [positive value is up]

If the offset is corrected by secondary alignment, the spectrometer will be at 48.643 degrees

To achieve this optimal setting make the following adjustments:

Horizontal corrections: Move rear jacks along target -3.86 mm Upstream

9 Par Aposter Val : 0.27 (mm)