

Jefferson Lab Alignment Group

Data Transmittal

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FROM: Steve Hardisty	Checked: [kjt]	#: A1775
TO: D.Higinbotham,J. Butler	DATE	02/28/2017

DETAILS:

Below are the results from the surveys of the left and right spectrometers on February 28nd, 2017. 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.

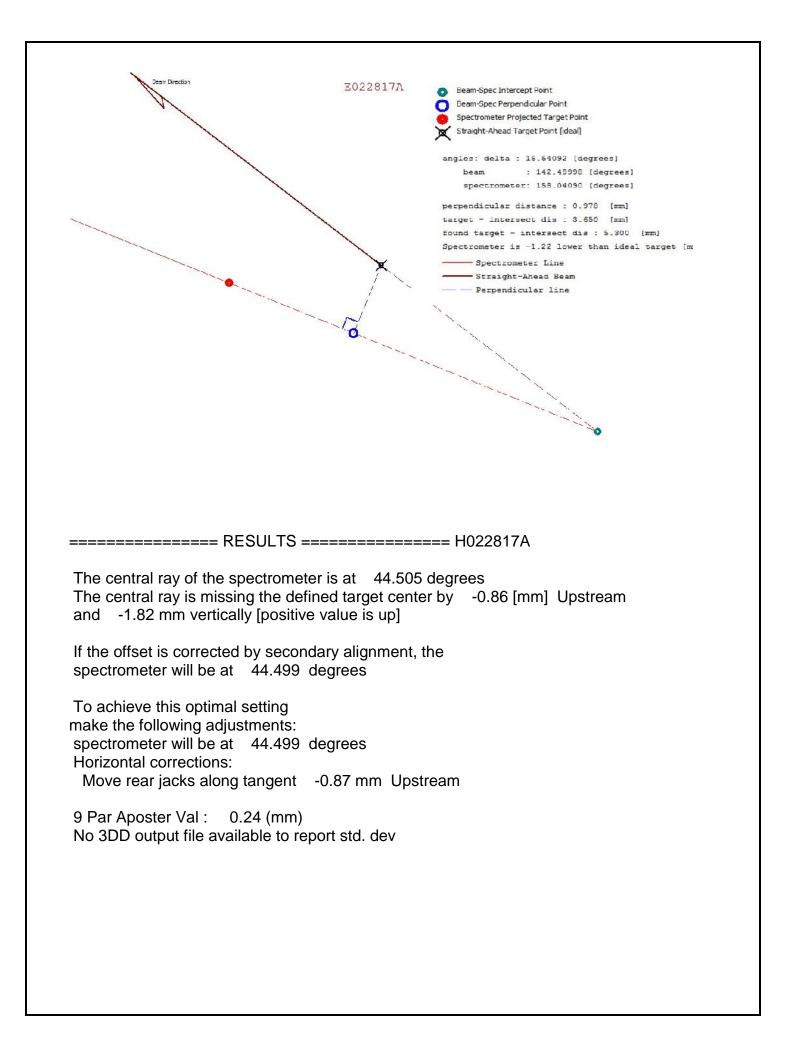
A graphical sketch is shown after each of the three results.

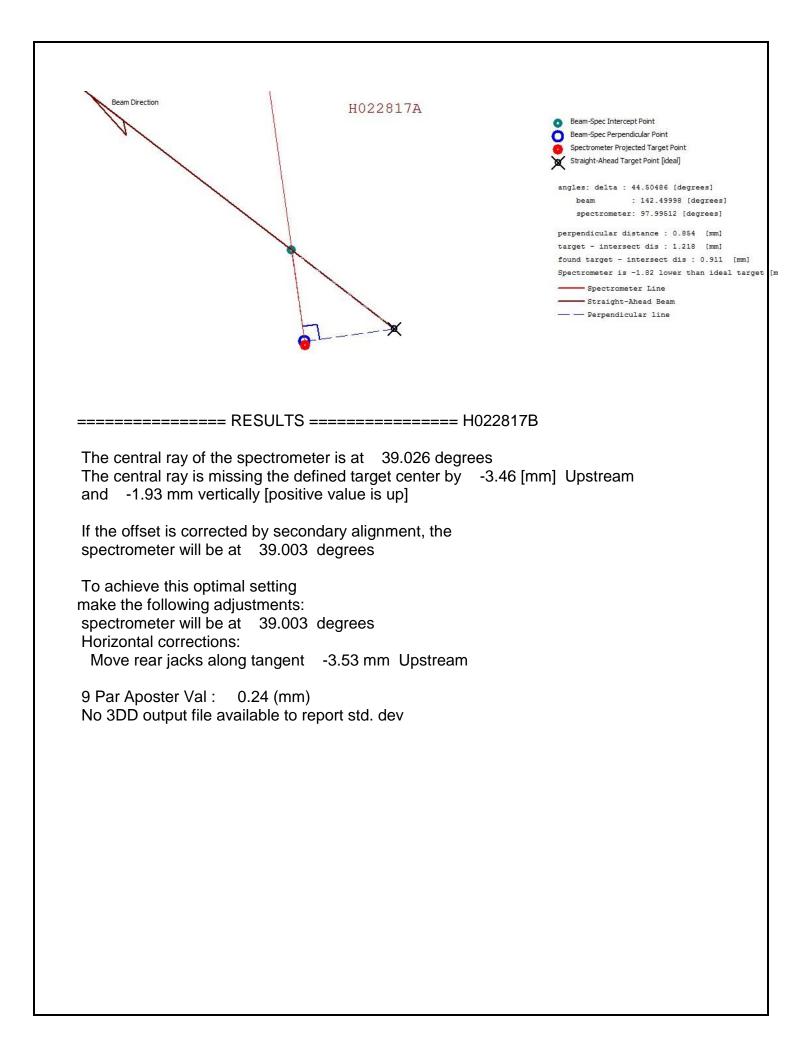
The central ray of the spectrometer is at -15.541 degrees The central ray is missing the defined target center by -0.98 [mm] Upstream and -1.22 mm vertically [positive value is up]

If the offset is corrected by secondary alignment, the spectrometer will be at -15.548 degrees

To achieve this optimal setting make the following adjustments: spectrometer will be at -15.548 degrees Horizontal corrections: Move rear jacks along tangent -1.00 mm Upstream

9 Par Aposter Val : 0.13 (mm) No 3DD output file available to report std. dev





ReamDirection	
Н022817В	Beam-Spec Intercept Point
	Beam-Spec Perpendicular Point
	Spectrometer Projected Target Point
	Straight-Ahead Target Point [ideal]
	angles: delta : 39.02596 [degrees]
	beam : 142.49998 [degrees]
	spectrometer: 103.47402 [degrees]
	perpendicular distance : 3.462 [mm]
	target - intersect dis : 5.498 [mm]
	found target - intersect dis : 4.213 [mm]
hX	Spectrometer is -1.93 lower than ideal target [m
e L -	Spectrometer Line
	Perpendicular line