



Jefferson Lab Alignment Group

Data Transmittal

TO: C. Munoz Camacho, J. LeRose

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FROM: Chris Curtis

Checked:

: A1343

DETAILS:

DATA:\Aalign\E082710A
\\Step2B\HallA\Sieve_slits\100813A

Below are the results from the survey of the left spectrometer carried out on 27th August, 2010. 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 beamline. For the vertical pointing, a positive value indicates that the spectrometer is pointing above the target.

===== RESULTS ===== E082710A (Left)

The central ray of the spectrometer is at -21.480 degrees.
It is missing the defined target center by 1.91 mm upstream,
and 1.25 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the spectrometer will be at -21.493 degrees.

*.9PR : 0.132(mm) *.3DD : 1.36

The location on the center hole of the sieve slit was also measured on August 13th. The results are given below in millimeters, and are to the upstream face of the collimator, based on the center of Q1. A +X is to the beam left, a +Y is high, and a -Z is upstream.

	Z	X	Y
Sieve Center Hole	-876.30	-1.05	0.20