

Jefferson Lab Alignment Group

DATA TRANSMITTAL

TO: Ed Folts, Javier Gomez, John LeRose

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FROM: Chris Curtis

Checked: # 562

DETAILS:

Below are the results from the spectrometer pointing surveys carried out on the Hadron arm on November 16th.

===== RESULTS ===== H111699A

The central ray of the spectrometer is at 60.037 degrees.
It is missing the defined target center by .44 mm upstream,
and 1.46 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the spectrometer will be at 60.040 degrees.

Horizontal corrections:

Move rear jacks along tangent .45 mm upstream.

Vertical corrections (positive = up):

Central jack: -.28 mm.
Upstream rear jack: .26 mm.
Downstream rear jack: 1.59 mm.

*.3dd = 1.49 *.9pr = 0.13

===== RESULTS ===== H111699B

The central ray of the spectrometer is at 15.151 degrees.
It is missing the defined target center by 2.80 mm downstream,
and -.51 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the spectrometer will be at 15.132 degrees.

Horizontal corrections:

Move rear jacks along tangent 2.85 mm downstream.

Vertical corrections (positive = up):

Central jack: 1.35 mm.
Upstream rear jack: 1.69 mm.
Downstream rear jack: 2.73 mm.

*.3dd = 1.23 *.9pr = 0.12