## Jefferson Lab Alignment Group DATA TRANSMITTAL

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## **DETAILS:**

Below are the results from the spectrometer pointing surveys carried out on the Hadron and Electron arms on December 2<sup>nd</sup> and 3<sup>rd</sup>.

======== H120299A

The central ray of the spectrometer is at 16.553 degrees. It is missing the defined target center by and -.40 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the spectrometer will be at 16.533 degrees.

To achieve this optimal setting, make the following adjustments:

Horizontal corrections:

Move rear jacks along tangent 2.97 mm downstream.

Vertical corrections (positive = up):

Central jack: 1.58 mm. U/s rear jack: 2.39 mm. D/s rear jack: 3.17 mm.

======== E120399A

The central ray of the spectrometer is at -16.522 degrees. It is missing the defined target center by 2.56 mm upstream, and .14 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the spectrometer will be at -16.540 degrees.

To achieve this optimal setting, make the following adjustments:

Horizontal corrections:

Move rear jacks along tangent 2.60 mm upstream.

Vertical corrections (positive = up):

Central jack: 1.39 mm. U/s rear jack: 2.78 mm. D/s rear jack: 3.11 mm.

\*.3dd = 1.10 \*.9pr = 0.11