

# Jefferson Lab Alignment Group

## DATA TRANSMITTAL

TO: Ed Folts, Javier Gomez, John LeRose

DATE: 16 Nov, 1999

FROM: Chris Curtis

Checked: # 561

### DETAILS:

Below are the results from the spectrometer pointing surveys carried out on the Hadron arm on November 15<sup>th</sup>.

===== RESULTS ===== H111599B

The central ray of the spectrometer is at 27.610 degrees.  
It is missing the defined target center by 3.09 mm downstream,  
and -.32 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the spectrometer will be at 27.589 degrees.

Horizontal corrections:

Move rear jacks along tangent 3.15 mm downstream.

Vertical corrections (positive = up):

Central jack: 1.09 mm.  
Upstream rear jack: 1.61 mm.  
Downstream rear jack: 2.14 mm.

\*.3dd = 1.30      \*.9pr = 0.11

===== RESULTS ===== H111599C

The central ray of the spectrometer is at 12.528 degrees.  
It is missing the defined target center by 2.27 mm downstream,  
and -.76 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the spectrometer will be at 12.512 degrees.

Horizontal corrections:

Move rear jacks along tangent 2.31 mm downstream.

Vertical corrections (positive = up):

Central jack: 1.68 mm.  
Upstream rear jack: 2.02 mm.  
Downstream rear jack: 3.21 mm.

\*.3dd = 1.87      \*.9pr = 0.13