Jefferson Lab Alignment Group DATA TRANSMITTAL

TO: J. Gomez, A. Saha, N. Liyanage, J. LeRose DATE: 5 Feb 2001 PAGE: 1 of 2

FROM: C. Curtis Checked: #: A653

DETAILS:

Below are the results from the spectrometer pointing and superharp surveys carried out on the Electron and Hadron arms between January 30th and February 2nd.

======== H013001B

The central ray of the spectrometer is at 21.014 degrees. It is missing the defined target center by .29 mm downstream, and -0.07 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the spectrometer will be at 21.012 degrees.

*.3dd = 1.28 *.9pr = 0.13

======== H013101A

The central ray of the spectrometer is at 25.050 degrees. It is missing the defined target center by .24 mm upstream, and -0.12 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the spectrometer will be at 25.051 degrees.

======= E020101A

The central ray of the spectrometer is at -16.024 degrees. It is missing the defined target center by 1.76 mm upstream, and 0.04 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the spectrometer will be at -16.036 degrees.

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Superharps	DX	DY	locations in mm (+ is beam left) E020101A
SH1H01A	0.01	0.08	
SH1H01B	0.10	0.04	
SH1H01C	0.13	0.04	
SH1H02A	-0.22	0.15	
SH1H02B	-0.11	0.15	
SH1H02C	-0.14	0.24	

======= E020201A

The central ray of the spectrometer is at 140.513 degrees. It is missing the defined target center by 2.62 mm upstream, and -0.36 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the spectrometer will be at 320.496 degrees.

Superharps	DX	DY	locations in mm (+ is beam left) E020201A
SH1H01A	0.04	0.15	
SH1H01B	0.12	0.12	
SH1H01C	0.15	0.10	
SH1H02A	-0.10	0.24	
SH1H02B	-0.03	0.23	
SH1H02C	-0.01	0.29	