

Jefferson Lab Alignment Group

Data Transmittal

TO: J. Gomez, J. LeRose

DATE: 07 Dec 2006

FROM: Chris Curtis	Checked:	# :A1090
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DETAILS:

Below are the results from the electron (left) spectrometer surveys carried out on 20th and 21st November, 2006. In addition, the coordinates of three new points located on the link are given. These coordinates are in millimeters relative to the Hall A target and beamline, with +Z along the beam, +X to the beam left, and +Y up. The horizontal offset from each point to a line between the ideal target and the spectrometer Jack point is also shown.

======== RESULTS ======== E112006A

The central ray of the spectrometer is at -49.988 degrees. It is missing the defined target center by 0.90 mm upstream, and -0.80 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the spectrometer will be at 310.006 degrees.

*.9PR : 0.128 *.3DD : 0.86

	Z (mm)	X (mm)	Y (mm)	Offset (mm)
JACK	5437.36	6478.52	-1.71	0.00
ESPECTX	-420.51	2561.10	-2067.11	1968.56
ESPECTY	2678.87	5710.80	-1987.91	1619.38
ESPECTZ	4391.78	3623.50	-1965.91	-1034.53

======== RESULTS ======== E112106A

The central ray of the spectrometer is at -30.486 degrees. It is missing the defined target center by 1.70 mm upstream, and 0.36 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the spectrometer will be at -30.498 degrees.

*.9PR : 0.133 *.3DD : 0.85

Z (mm)	X (mm)	Y (mm)	Offset (mm)
7287.66	4292.34	-1.60	0.00
458.25	2554.49	-2067.75	1968.52
4431.07	4489.17	-1987.92	1619.32
5349.05	1949.83	-1965.90	-1034.58
	Z (mm) 7287.66 458.25 4431.07 5349.05	Z (mm)X (mm)7287.664292.34458.252554.494431.074489.175349.051949.83	Z (mm)X (mm)Y (mm)7287.664292.34-1.60458.252554.49-2067.754431.074489.17-1987.925349.051949.83-1965.90

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Date : 07 Dec 2006

Transmittal # : A1090

======== RESULTS ======== E112106B

The central ray of the spectrometer is at -105.996 degrees. It is missing the defined target center by 2.78 mm upstream, and 1.71 mm vertically (positive up).

If the offset is corrected by secondary alignment, the spectrometer will be at 253.986 degrees.

*.9PR : 0.128 *.3DD : 0.83

	Z (mm)	X (mm)	Y (mm)	Offset (mm)
JACK	-2333.15	8128.96	-1.26	0.00
ESPECTX	-2358.42	1083.10	-2066.07	1968.09
ESPECTY	-3237.64	5413.49	-1985.99	1618.53
ESPECTZ	-549.36	5667.00	-1964.07	-1035.36