

# Jefferson Lab Alignment Group

## DATA TRANSMITTAL

**TO:** Distribution

**DATE:** July 2<sup>nd</sup>, 2001

**FROM:** C. J. Curtis

**Checked:** # L679

### DETAILS:

During the shutdown of May 2001, the alignment group undertook the re-alignment of Line B components downstream of QA2C05. This was a follow up to the elevation re-survey described in data transmittal #L657. New Dimad data was calculated for the line based on a new elevation of the Hall B interaction point as 103.34326 m.

The results given below show the as found elevation with respect to the ideal using the new monument elevations. Also shown are as set location (+ve is high), and the movements (all in millimeters). Dipole BE2C06 is at the limit of the cartridge adjuster, and has been left out of tolerance.

<b>Element</b>	<b>Found</b>	<b>Set</b>	<b>Mov't</b>
QA2C05	0.34	0.06	-0.28
BE2C01	0.43	0.07	-0.37
QA2C06	0.67	-0.16	-0.83
QA2C07	0.38	-0.09	-0.47
BE2C02	0.41	0.02	-0.39
QA2C08	0.69	-0.14	-0.83
QA2C09	0.94	-0.08	-1.02
BE2C03	1.36	0.11	-1.25
QA2C10	1.30	0.07	-1.23
QA2C11	1.60	-0.21	-1.81
BE2C04	1.77	0.18	-1.59
QA2C12	1.74	0.07	-1.67
QA2C13	2.31	-0.12	-2.43
BE2C05	2.85	0.08	-2.77
QA2C14	3.01	0.08	-2.93
QA2C15	3.65	-0.10	-3.75
BE2C06	4.08	1.04	-3.05
QA2C16	4.27	-0.01	-4.28
QA2C17	4.45	-0.10	-4.55
BE2C07	4.36	-0.01	-4.37
QA2C18	4.36	0.18	-4.18
QA2C19		-0.04	
BE2C08	2.79	-0.06	-2.84
QA2C20	2.35	0.09	-2.26
QA2C21	0.91	-0.08	-0.99
IPM2C21		-0.15	
Goniometer	-0.56	-0.56	0.00
Moller Tgt		0.17	
QE2M01	-0.93	-0.93	0.00
QE2M02	-0.74	-0.74	0.00
QA2C22	-1.06	-0.06	1.01
QA2C23	-1.06	0.02	1.08
QA2C24	-0.78	-0.04	0.75
IPM2C24	-0.70	0.00	0.70
U Raster	-3.09	0.11	3.20
D Raster	0.44	-0.04	-0.48
Tagger	0.53	0.53	0.00

Distribution: J. Benesch  
A. Bogacz  
B. Mecking

A. Freyberger  
M. Spata