

Jefferson Lab Alignment Group

DATA TRANSMITTAL

TO: C. Perdrisat, J. LeRose

DATE: 25 April, 2001

FROM: C. J. Curtis

Checked:

: A665

DETAILS:

Below are the results from the recent surveys of the spectrometer sieve slits. These surveys show the change in location of the reference targets on the side of the slit boxes relative to their position measured in September 2000. During the September survey the slit box reference targets were measured concurrently with the collimator slits (see DTM #A_627). These results can also be seen below. Therefore, in order to obtain the approximate location of the slits during the recent survey, the changes should be applied to the September values.

The results from September represent the location (in mm) of the target with respect to its ideal position. A negative X is to the beam right, positive Y is high, and positive Z is downstream. For the April survey the results show the difference from the previous location in the same system.

Survey 04-16-01 - Change From Sep 2000

	DZ	DX	DY
ESLITG	0.01	0.19	0.03
ESLITH	0.03	0.27	0.02
HSLITA	0.29	0.32	0.08
HSLITB	0.20	0.35	0.08

Sep 2000 Survey

	DX	DY	Encoder
Electron			
Large Slit (found)	-1.87	4.34	nominal
Sieve Slit (found)	-0.54	3.68	nominal
Large Slit (final)	-1.88	0.00	6212
Sieve Slit (final)	-0.56	0.00	3695
Hadron			
Large Slit (found)	2.30	-0.87	nominal
Sieve Slit (found)	0.72	-1.29	nominal
Large Slit (final)	2.30	0.00	6141
Sieve Slit (final)	0.76	0.00	3627