

Jefferson Lab Alignment Group Data Transmittal

TO: J.P. Chen, J. LeRose	DA	TE : Jun 17, 2003	
FROM: James Dahlberg	Checked:	# A870r	

Details:

Below are the results of the post run survey performed on the hadron (right) septum sieve slits carried out on May 29th, 2003. The ideal X values **have been re-calculated** using the as found distance of the slit from the nominal He3 target, i.e. (Dist \times sin 6°). For the reported locations and deltas the Z axis runs along the main Hall A beamline, not the 6° line. The survey was performed while the small hole slit was in place, and as a result, the large hole slit location is a calculated position using the fiducial data. This predicted location relies on the repeatability of the slit holder when it is attached to the slit box. A 12.7mm vertical correction is also applied for the large hole shim plate. Also included is the location of the large aperture measured on the slit box after it was removed from the pivot area. The coordinates are generated using the as found location of the small slit tooling balls during the post-run survey. Note that these measurements are to the downstream face of the aperture. A +Z is downstream, +X is to the beam left, and +Y is up.

SIEVE SLITS MEASURED ON PIVOT

	Z	X	Υ
As-found (small hole)	796.17	-82.41	1.85
Revised Ideal		-83.67	0.00
Delta		1.26	1.85
Predicted as-found (large hole)	795.89	-83.89	-10.71
Revised Ideal		-83.65	-12.70(shim cor.)
Delta		-0.24	1.99
SIEVE SLIT LARGE APERTURE			
	Z	X	Υ
Downstream face of large aperture.	816.52	-84.99	3.90
Revised Ideal		-85.81	0.00
Delta		0.82	3.90