Jefferson Lab Alignment Group

Data Transmittal

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Details:

Below are the results of the survey performed on the hadron (right) septum sieve slit carried out on April 17th, 2003. The deltas are relative to an ideal centerline calculated at 800 mm downstream from the nominal He3 target center at 6 and 9 degrees. The slit location is determined using the fiducial data relating the three external tooling balls to each of the sieve slit centerlines measured prior to installation. The as-set location of the tooling balls were measured while the spectrometer was at 9 degrees. Any changes associated with the spectrometer movement to 6 degrees or repeatability in positioning the internal sieve slit has not been determined. A +Z is downstream, +X is to the beam left, and +Y is up.

	Z	X	Y
IDEAL (6°)	795.62	-83.62	0.00
SET(large hole)	795.68	-83.19	1.95
delta	0.06	0.43	1.95
SET (small hole)	795.51	-82.75	14.66
delta	-0.11	0.87	14.66
IDEAL (9°)	790.15	-125.15	0.00
SET(large hole)	790.06	-124.74	1.97
delta	-0.09	0.41	1.97
SET (small hole)	795.15	-124.33	14.66
delta	-0.01	0.18	14.66