



Jefferson Lab Alignment Group

Data Transmittal

TO: J. Grimes

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Checked: JCD

: M1833

DETAILS:

Data: Step2B\UITF\171006A
PreAlign\UITF\170120A

Below are the results from the recent survey carried out on the UITF ISLK302(MS). All coordinates are in millimeters and relative to a beam following right-hand coordinate system with the origin located at the downstream flange face of the Y-Chamber. Table 1 has the as-set information. Table 2 contains fiducial values. Table 3 contains Aperture and pinhole locations with fiducial offsets applied.

Table 1: ISLK302(MS) Location			
Object	X	Y	Z
US Flange	-0.47	0.22	3174
DS Flange	-0.57	0.01	3445
Top Flange	1.97	197.71	3312

Table 2: ISLK302(MS) Fiducial Values			
Object	X	Y	Z
US Flange	-0.40	-0.03	
DS Flange	-0.40	-0.03	
Top Flange	2.32	384.67	5
Aperture Center	0.00	0.00	0
US Pinhole	-0.05	0.06	-5
DS Pinhole	0.05	-0.06	5

Table 3: ISLK302(MS) Location (Fid offsets applied)			
Object	X	Y	Z
Aperture Center	-0.12	0.15	3307
US Pinhole	-0.17	0.21	3302
DS Pinhole	-0.07	0.09	3312

ISLK302(MS) Original caliper values:

- 181.96mm @ right, outside motor flange
- 125.72mm @ right, inside motor flange
- 125.63mm @ right, inside motor flange (Phil's check)

ISLK302(MS) Caliper Values for as-found conditions:

- Use these caliper values to set the aperture on beamline
- 181.81mm @ right, outside motor flange
- 125.57mm @ right, inside motor flange

Table 4: Additional Chopping Components Locations			
Object	X	Y	Z
US MFAK301	-0.37	0.42	2650
DS RIHK301	-0.29	0.45	2733
US MFDK302A	-0.47	0.22	3174
DS MFDK302B	-0.57	0.01	3446
US RIHK302	0.59	0.16	3870
DS MFAK303	-0.05	0.34	3954