



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** R. Suleiman, C. Garcia

**DATE:** 31 Mar 2017

**FROM:** J. Dahlberg

**Checked:**

**# :** F1783

**DETAILS:**

Data: Step2B\INJGTS\170329a

Below are the results from the final survey of the GTS carried out in the LERF test cave. To show the final XY offsets, the coordinate system is centered on a best fit line through the components listed below. A +X is to the beam left, a +Y is above, and a +Z is downstream from the gun center. The inside entry cylinder and exit cone Z values are from fiducial data prior to installation and are offsets from the top flange. Values are in millimeters

<b>LOCATION</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
GUN CL AT US FLANGE	-0.20	0.45	-278.52
INSIDE ENTRY CYLINDER			-64.49
GUN CL AT TOP FLANG Z	-0.22	0.08	0.00
INSIDE EXIT CONE			64.08
GUN CL AT DS FLANGE	-0.24	-0.15	171.10
SOL 0 AS FOUND	0.42	0.34	353.61
SOL 0 MOVE 1	1.93	0.22	353.25
SOL 0 MOVE 2	3.45	0.24	353.25
SOL 0 MOVE 3	-3.39	0.26	353.22
SOL 0 MOVE SET	-0.23	0.27	353.22
US SOL 1	0.35	-0.48	517.59
DS SOL 1	0.02	-0.48	620.72
US SOL 2	-0.24	-0.07	1050.30
DS SOL 2	-0.19	0.06	1147.44
US SLIT 1	0.68	0.05	1429.46
DS SLIT 1	0.85	0.13	1677.49
US SLIT 2	0.22	0.40	1935.35
DS SLIT 2/US FCUP	-0.24	0.12	2183.74
DS FCUP	0.07	-0.19	2376.76
US SOL 3	-0.12	-0.21	2421.26
DS SOL 3	-0.75	0.09	2471.60