



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** C. Hernandez-Garcia, M. Poelker

**DATE:** 10 Mar 2016

**FROM:** Jacob Walker

**Checked:** JD

**# :** F1704

**DETAILS:**

Data: step2a\FEL\GTS\160229a

Below are the results from the recent survey of the ELIC. All coordinates are given in millimeters. A coordinate system was established where a best fit line through all components is X and Y = 0. Z = 0 is located at the center top flange of the injector gun. +X is left of beam, +Y is above beam, +Z is downstream of center gun flange.

<b>Component</b>	<b>X(mm)</b>	<b>Y(mm)</b>	<b>Z(mm)</b>
US Gun	0.03	-0.12	-260
DS Gun	-0.12	-0.18	215
US Solenoid 1	0.02	0.14	575
DS Solenoid 1	0.12	0.11	725
US BPM 1	0.19	-0.11	795
DS BPM 1	0.00	0.36	940
US Viewer 1	-0.12	0.07	1250
DS Viewer 1	-0.19	-0.11	1510
US BPM 2	-0.23	0.03	1510
DS BPM 2	-0.33	0.12	1655
US Viewer 2	0.03	0.01	1955
DS Viewer 2	-0.04	0.11	2195
US Viewer 3	-0.04	0.11	2195
DS Viewer 3	-0.11	0.20	2435
US BPM 3	-0.09	0.18	2435
DS BPM 3	0.16	-0.07	2580
US Solenoid 2	-0.14	0.14	2590
DS Solenoid 2	-0.21	0.17	2740
US DP Can	0.20	-0.08	3035
DS DP Can	0.56	-0.07	3240
US Harp	0.19	0.03	3375
DS Harp	0.01	0.08	3635
US Dump	-0.45	-0.04	3705
DS Dump	-0.24	0.28	4025
<b>Location of walls</b>	<b>X(mm)</b>	<b>Y(mm)</b>	<b>Z(mm)</b>
NE Corner	1424	0	7690
NW Corner	1486	0	-5279
SE Corner	-2092	0	7724
SW Corner at Door	-4090	0	-5304
SE Corner at Door	-4068	0	-417
SW Inside Corner near Gun	-2042	0	-416
Ceiling		1985	
Floor		-1091	