



# Jefferson Lab Alignment Group

## Data Transmittal

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**Checked:**

**# :** A1270

**DETAILS:**

data: step2B\BSY\BSY9A\100311A & B

The survey results for beampipe under vacuum in the Hall A Compton region are given below. Locations for the upstream and downstream sections are given in millimeters and are shown in the accompanying drawings. Deltas are given from the main beamline (ideal Y=100.022m) or from the lower beamline (Y=99.718m) as appropriate. The pitched beam is defined by the adjacent dipoles. Some of the flanges are not designed to be centered (e.g. BP10, 18, 30, 31 & 32). For the cavity, the shots before and after vacuum are not directly comparable since measurement locations may differ significantly (e.g. 110mm for DS BPM DS).

**Upstream**

<u>Point</u>	<u>DX</u>	<u>DY</u>
C_BP1	-1.1	3.2
C_BP2	0.7	1.4
C_BP3	0.1	-0.2
C_BP4	-0.5	-2.4
C_BP5	0.0	2.1
C_BP6	-2.0	1.8
C_BP7	-0.5	2.6
C_BP8	-0.9	1.6
C_BP9	-2.4	3.6
C_BP10	-0.8	17.3
C_BP11	1.2	-0.7
C_BP12	1.3	-0.4
C_BP13	1.3	-0.8

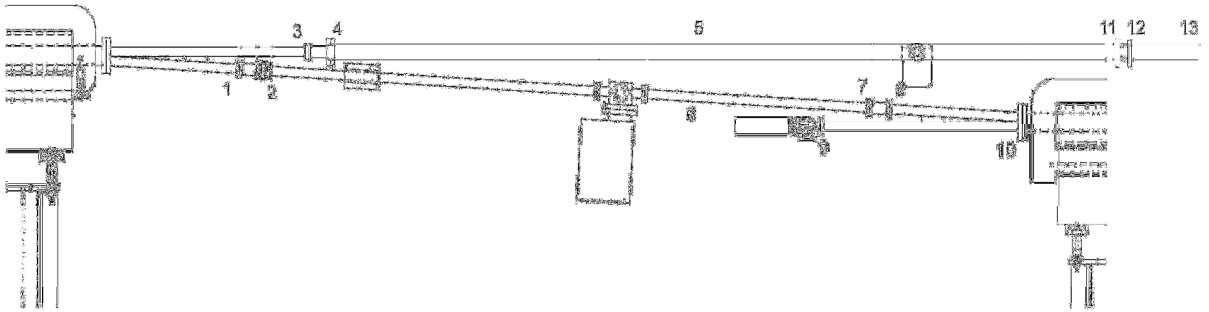
**Downstream**

<u>Point</u>	<u>DX</u>	<u>DY</u>
C_BP14	1.0	-1.2
C_BP15	0.9	-0.7
C_BP16	0.8	0.0
C_BP17	1.3	-1.1
C_BP18	1.3	14.3
C_BP19	-0.8	-3.7
C_BPMU	-0.2	-2.0
C_BPMD	-0.7	-3.3
C_BP20	0.0	-3.4
C_BP21	2.1	-3.2
C_BP22	-1.7	-4.9
C_BP23	-0.6	-4.7
C_BP24	0.7	-1.8
C_BP25	2.3	-2.2
C_BP26	4.6	2.2
C_BP27	1.3	1.7
C_BP28	1.1	-0.3
C_BP29	2.2	-0.9
C_DCOL	2.6	1.7
C_BP30	4.5	-39.7
C_BP31	4.3	-39.7
C_BP32	4.2	-28.7

**Cavity**

<u>Point</u>	<u>Before Vac</u>		<u>After Vac</u>		<u>DDX</u>	<u>DDY</u>
	<u>DX</u>	<u>DY</u>	<u>DX</u>	<u>DY</u>		
TABLETOP		-301.1		-300.7		0.4
US Dipole Flg	-0.8	-1.7	0.1	-2.1	0.8	-0.4
US BPM US	0.2	-1.5	0.4	-1.5	0.2	0.0
US BPM DS	1.6	-1.0	0.9	-0.5	-0.7	0.4
US Coll 1	1.6	-0.7	1.6	-0.4	0.0	0.3
US Coll 2	1.1	0.1	1.9	0.3	0.9	0.2
DS Coll 1	1.5	0.2	1.3	0.1	-0.2	-0.1
DS Coll 2	0.8	-0.7	1.2	-0.7	0.4	0.0
DS BPM US	1.4	-1.3	0.9	-0.5	-0.5	0.7
DS BPM DS	-3.0	0.1	0.6	-0.7	3.7	-0.8
DS Dipole Flg	1.3	-2.0	0.5	-1.5	-0.8	0.5

UPSTREAM:



DOWNSTREAM:

