



# Jefferson Lab Alignment Group

## Data Transmittal

TO: J. Jaros

DATE: 24 Apr 2012

FROM: J. Dahlberg

Checked:

# : B1448

### DETAILS:

Below are the results from the HPS detector survey carried out on April 19, 2012. A right handed coordinate system (in millimeters) was established based on the ideal center of the pair spectrometer magnet located 1349.12 cm from CLAS. This is the ideal distance for the HD\_ice run. A +X is to the beam left, a +Y is up, and a +Z is downstream. Values which are in **bold** case signify the noteworthy information.

LOCATION	X	Y	Z
FIDUCIAL A	<b>150.1</b>	<b>-59.1</b>	-1271.7
FIDUCIAL B	<b>149.2</b>	<b>-60.5</b>	-76.8
FIDUCIAL C		<b>-60.0</b>	
DOWNSTREAM C FRAME BOTTOM	56.4	<b>-56.1</b>	-187.8
DOWNSTREAM C FRAME TOP	56.4	<b>55.0</b>	-197.8
DOWNSTREAM C FRAME VERTICAL CENTER		<b>-0.6</b>	
DOWNSTREAM BEAM LEFT VACUUM BOX	<b>208.0</b>	69.2	-185.9
DOWNSTREAM BEAM RIGHT VACUUM BOX	<b>-207.6</b>	69.5	-160.0
DOWNSTREAM VACUUM BOX HORZ CENTER	<b>0.2</b>		
UPSTREAM BEAM LEFT VACUUM BOX	<b>208.1</b>	69.8	-1242.7
DOWNSTREAM BEAM LEFT TOP VACUUM BOX	124.3	<b>88.0</b>	-180.3
UPSTREAM BEAM LEFT TOP VACUUM BOX	171.1	<b>89.0</b>	-1234.9
DOWNSTREAM BEAM LEFT TOP OF BASE PLATE	182.9	<b>-81.4</b>	-88.3
DOWNSTREAM BEAM RIGHT TOP OF BASE PLATE	-153.7	<b>-80.8</b>	-93.2
UPSTREAM BEAM LEFT TOP OF BASE PLATE	180.5	<b>-80.5</b>	-1188.3
MEAS CALIPER HEIGHT OF VACUUM BOX AT UPSTREAM END		<b>177.4</b>	