

# ***Jefferson Lab Alignment Group***

## **DATA TRANSMITTAL**

**TO:** D. Kashy, A. Gasparian

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**FROM:** James Dahlberg

**Checked:** # : B787

### **DETAILS:**

Below are the results of the recent inspection performed on the Hall B SHOT detector. A right-handed coordinate system was established using an average of the four Cu outside plates to control the pitch, yaw, and roll. The Z-axis is centered on the upstream inside circular aperture. Positive X is to the beam left and positive Y is above centerline. The values represent the center of an average plane established off the four corners of each surface.

<b>LOCATION</b>	<b>X</b>	<b>Y</b>
<b>OUTSIDE SURFACE OF Cu PLATES</b>		
Top		237.16
Bottom		-221.84
Beam left	236.30	
Beam right	-216.14	
<b>UPSTREAM LARGE APERTURE.</b>		
Top surface on mylar		104.30
Bottom surface on mylar.		-83.44
Beam left surface on mylar.	104.54	
Beam right surface on mylar.	-83.97	
<b>UPSTREAM SMALL APERTURE</b>		
Top surface on G10		20.76
Bottom surface on G10		-20.66
Beam left surface on mylar.	20.72	
Beam right surface on mylar.	-21.13	
<b>DOWNSTREAM LARGE APERTURE</b>		
Top surface on mylar		104.12
Bottom surface on mylar		-83.00
Beam left surface on mylar	103.97	
Beam right surface on mylar.	-83.82	