



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** David Lhuillier

**DATE:** Jun 30, 2003

**FROM:** Chris Gould

**Checked:**

**#** DT\_A874

### DETAILS:

Below are the results of the Hall A electron happex survey performed June 30, 2003. The coordinate system is relative to the centerline of the vertical drift chamber (VDC), with a +Z running horizontally towards downstream, (not pitched along the spectrometer axis). A +X is to the beam left, and +Y is coming out perpendicular from the face. The Z, X, and Y coordinates are to points measured on the beam left side of the happex used to determine the pitch, yaw, and roll angles. The roll angle is calculated from a plane perpendicular to the face of the VDC, which has been rotated parallel to the beam left side of the happex. Values are in millimeters and degrees.

<b>Station</b>	<b>Angle</b>	<b>Z</b>	<b>X</b>	<b>Y</b>
Yaw	16.9°			
Point 1		-240.91	-95.28	187.89
Point 2		-59.96	-41.57	193.22
Pitch	1.5° (downstream end high)			
Point 1		-246.41	-99.06	180.30
Point 2		-57.05	-42.40	185.40
Roll	15.5°			
Point 1		-383.33	-178.22	323.87
Point 2		-387.58	-216.01	448.98