

# Jefferson Lab Alignment Group

## DATA TRANSMITTAL

**TO:** Mark Ito, Dave Kashy

**DATE:** July 15, 2002

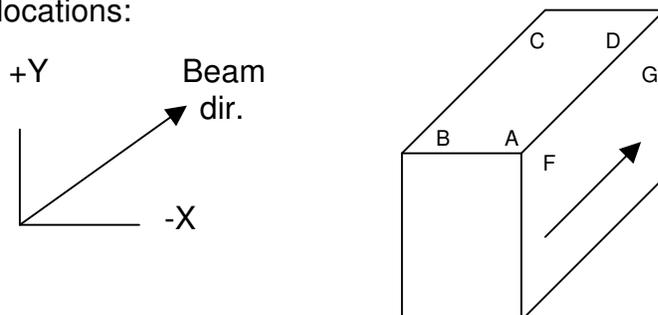
**FROM:** Richard Schwartz

**Checked:** # : B794

**DETAILS:**

Below are the results of the calibration survey performed on the HyCal prototype detector on July 2, 2002. The results of the survey indicate the difference between the detector centerline and the nominal beam centerline. Values are reported in millimeters, such that a positive X is beam left and positive Y is above.

Fiducial locations:



**VERTICAL RESULTS:**

<u>STATION-FID.</u>	<u>LOCATION</u>	<u>USER COORD.</u>	<u>REMARKS</u>
1 - A	-580.90		Home, on bottom beam right.
1 - B	-576.28		
1 - D	-583.87		
2 - A	0.00	2271.489	Set fiducial A vertically on ideal.
2 - B	-4.84		
2 - D	-14.81		
3 - A	235.34	3197.549	Limit switch, top beam right.
3 - B	240.26		
3 - D	219.45		
4 - A	235.32		Repeat limit switch, top beam right.
4 - B	240.26		
4 - D	219.37		
5 - A	-580.66		Repeat on home position.
5 - B	-575.98		
5 - D	-582.19		
6 - A	-580.60		Repeat on home position.
6 - B	-575.95		
6 - D	-582.39		

# DATA TRANSMITTAL (cont.)

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## HORIZONTAL RESULTS:

Note: Measurements taken with prototype at lower limit switch vertically.

<u>STATION-FID.</u>	<u>LOCATION</u>	<u>USER COORD.</u>	<u>REMARKS</u>
1 - F	-232.95	35.541	Home, on bottom beam right.
1 - G	-222.34		
2 - F	0.00	18.300	Set fiducial F horizontally on ideal.
2 - G	12.46		
3 - F	220.15		Bottom beam left.
3 - G	231.26		
4 - F	220.16		Repeat on bottom beam left.
4 - G	231.32		
5 - F	-232.65		Repeat on home position.
5 - G	-220.10		
6 - F	-232.75		Repeat on home position.
6 - G	-220.10		
7 - F	-232.65		Repeat on home position.
7 - G	-220.10		