Jefferson Lab Alignment Group DATA TRANSMITTAL							
TO:	J. Gomez, J	. Mitchell, A. S	Saha, J. Le	eRose	DATE: 4 De	ecember, 2000	)
FROM	I: J. Dahl	berg			Checked:	#:A	641
DETA	AILS:						
Below are the results from the Electron spectrometer pointing and superharp surveys carried out on Nov 27 <sup>th</sup> . The values have been computed slightly differently than previous surveys, using a coordinate system that forces the vertical axis to be parallel with gravity. This should prevent any 'tilting' errors in the survey results. All of the spectrometer / superharp surveys carried out from Sept 20 <sup>th</sup> onward, when the superharps were relocated, have been re-processed using a gravity based system. As a result, the majority of the data agrees with previously published surveys to within 0.10 mm and 0.001 deg. The exceptions are tabulated below.							
The central ray of the spectrometer is at -19.275 degrees. It is missing the defined target center by 1.93 mm upstream, and 0.32 mm vertically (positive = up).							
spectrometer will be at -19.288 degrees.							
*.3dd = 1.33 *.9pr = 0.10							
	Superharps		DX	DY	locations in mm (+ is beam left)		
	SH1H01A SH1H01B SH1H01C		0.06 0.18 0.20	0.08 0.03 0.03			
	SH1H02A SH1H02B SH1H02C		-0.32 -0.28 -0.26	0.26 0.29 0.34			
=== PREVIOUS RESULTS COMPARED TO GRAVITY REFERENCED ===							
	DT#	Survey	Target		Previous	Gravity	Δ
	A640E110100AA640H103000AA636H101600A		SH1H01 Central ray Central ray		-0.09 DY 3.28 dnst 0.05 dnst	0.04 DY 3.50 dnst 0.23 dnst	+ 0.13 0.22 dnst 0.18 dnst