Jefferson Lab Alignment Group DATA TRANSMITTAL

TO: Mike Seely, Dave Meekins			DATE: 12 October 2000			
FROM: Richard	ıld	C	Checked:	DT_C635		
DETAILS:						
targets an while posi the origin following v center and degrees a	ow are the as-found of the Y locations on tioned in beam line. at the Hall C ideal ta with +Z being downs d +Y being above ta and based on a right element is tipped do	the optic All coord arget loca tream of rget cente hand coo	s ladder (inates in tion. The the targe er. The Ya rdinate s	using foil 7 a this transmi right hand o t center; +X aw and pitch ystem with t	and the Bery ttal are in m coordinate s being beam angles are the pitch bei	/llium target illimeters with ystem is beam heft of target in decimal ng negative
	Target Location					
Location	Encoder	Z	X	Yer Localic Y	Yaw	Pitch
		-		·	. an	1 1011
Cell 1 Top	4502105	1.36	2.24	0.89	+0.064	-0.135
Cell 1 Bott	3786841	1.18	2.37	0.74	+0.103	-0.169
Cell 2 Top	3071577	0.96	1.99	0.93	-0.076	-0.085
Cell 2 Bott	2356322	0.89	2.46	0.86	+0.037	-0.079
Cell 3 Top	1641055).75	2.71	0.69	+0.025	-0.154
	925784 with Foil 7 in beam I with Beryllium target		3.11 line	0.71 7.55 58.25	+0.048	-0.108
upstream	pelow are distances and downstream fac g further most upstre	ce of each				
	Upstream Z	Down	stream Z	Averag	e Z	
Foil Target 1	-74.92	- 73	.74	-74.33	3	
Foil Target 2			-37.95			
Foil Target 3		-18.17		-39.18 -18.68		
Foil Target 4			21	1.59		
Foil Target 5			.56	21.06		
Foil Target 6			.06	41.58		
Foil Target 7			.02	76.51		

Coordinate accuracy is estimated to be \pm 0.36mm (rms.) based on error contributions as follows:

Faro	= <u>+</u> .150 mm
S2AA survey	= <u>+</u> .150 mm
Monuments	= \pm .290 mm (largest component being Y (elevation)).

For your benefit coordinates are shown to 2 decimal places.