OM: Kelly	askel, Neil Oka Tremblay	[Data Tra	A <i>lignmer</i> ansmittal n Wang, J. Gran		•
ROM: Kelly AILS: dat	Tremblay	ay, Jay Bei	nesch, Ya	n Wang, J. Gran		
T <mark>AILS:</mark> dat	,			- 5,	nes D	ATE: 21 Jul 2006
	a: step2b\bsy\bs			Checked	I: CJC	# : C1069
		sy9c\060307a,	, 2b\bsy\bs	y10c\060706a & 2b\	hallc\gzero	\060717a + field not
The delta millimeter	s. A +x value is	e in the be s to the bea	am followi am left and	ng coordinate s d +y is higher tha also shown in m	an ideal. T	
readings	•					e relevant, encode
Component	I Dist Hall Ce	antor (m)			1 ()	1
TDM2C20A			dx (mm)	Harp encoder	dy (mm)	Harp encoder
		-17.643	-0.58	Harp encoder	-0.37	Harp encoder
				Harp encoder	_	Harp encoder
ІРМЗНОО		-17.643	-0.58	Harp encoder	-0.37	Harp encoder
IPM3H00 IPM3H00A		-17.643 -6.710	-0.58 -0.82	Harp encoder	-0.37	Harp encoder
IPM3H00 IPM3H00A IHA3H00		-17.643 -6.710 -3.25	-0.58 -0.82 0.09		-0.37 -0.29 0.45	
IPM3H00 IPM3H00A IHA3H00 IPM3H00B		-17.643 -6.710 -3.25 -3.01	-0.58 -0.82 0.09 0.05		-0.37 -0.29 0.45 0.36	
IPM3H00 IPM3H00A IHA3H00 IPM3H00B IPM3H00BB		-17.643 -6.710 -3.25 -3.01 -2.31	-0.58 -0.82 0.09 0.05 -0.06		-0.37 -0.29 0.45 0.36 0.32	
IPM3H00 IPM3H00A IHA3H00 IPM3H00B IPM3H00BB ITV3H00		-17.643 -6.710 -3.25 -3.01 -2.31 -2.05	-0.58 -0.82 0.09 0.05 -0.06 0.46		-0.37 -0.29 0.45 0.36 0.32 0.54	
IPM3H00 IPM3H00A IHA3H00 IPM3H00B IPM3H00BB ITV3H00 IHA3H00A		-17.643 -6.710 -3.25 -3.01 -2.31 -2.05 -1.81	-0.58 -0.82 0.09 0.05 -0.06 0.46 0.01	(653A)	-0.37 -0.29 0.45 0.36 0.32 0.54 0.20	(A70B)
IPM3H00 IPM3H00A IHA3H00 IPM3H00B IPM3H00BB ITV3H00 IHA3H00A IPM3H00C		-17.643 -6.710 -3.25 -3.01 -2.31 -2.05 -1.81 -1.60	-0.58 -0.82 0.09 0.05 -0.06 0.46 0.01 0.24	(653A)	-0.37 -0.29 0.45 0.36 0.32 0.54 0.20 0.69	(A70B)
IPM3C20A IPM3H000 IPM3H00A IPM3H00B IPM3H00BB ITV3H00 IHA3H00A IPM3H00C IBC3H00 VBV3H00B		-17.643 -6.710 -3.25 -3.01 -2.31 -2.05 -1.81 -1.60 -1.34	-0.58 -0.82 0.09 0.05 -0.06 0.46 0.01 0.24 0.48	(653A)	-0.37 -0.29 0.45 0.36 0.32 0.54 0.20 0.69 0.43	(A70B)
IPM3H00 IPM3H00A IHA3H00 IPM3H00BB ITV3H00 IHA3H00A IPM3H00C IBC3H00		-17.643 -6.710 -3.25 -3.01 -2.31 -2.05 -1.81 -1.60 -1.34 n/a	-0.58 -0.82 0.09 0.05 -0.06 0.46 0.01 0.24 0.48 0.15	(653A)	-0.37 -0.29 0.45 0.36 0.32 0.54 0.20 0.69 0.43 0.19	(A70B)
IPM3H00 IPM3H00A IHA3H00 IPM3H00BB ITV3H00 IHA3H00A IPM3H00C IBC3H00		-17.643 -6.710 -3.25 -3.01 -2.31 -2.05 -1.81 -1.60 -1.34 n/a	-0.58 -0.82 0.09 0.05 -0.06 0.46 0.01 0.24 0.48 0.15	(653A)	-0.37 -0.29 0.45 0.36 0.32 0.54 0.20 0.69 0.43 0.19	(A70B)

8.688

10.734

12.223

13.205

13.460

15.263

15.505

15.754

16.050

13th, 2006 survey. See note below.

Flange2

IHM3HG0

IBC3HG0

IPM3HG0A

IHA3HG0

IOR3HG0

IHA3HG0A

IPM3HG0B

Flange3

0.31

0.43

0.82

0.07

-0.12

2.22

-0.25

-0.35

-2.18

(65C8,DEE8)

(7E5E,F2BA)

The following points on the GZero Superharp data are derived from a March

-1.21

0.54

-0.01

-0.60

-1.85

-0.27

-4.13

-0.39 (9D4D)

0.56 (ABFA)

Jeffers	son Lab Alignment Group Data Transmittal Continued	Page	2	of	2	
Date :	21 July, 2006	Transr	nittal	#:	C1069	

Halo Monitor IHM3HG0 encoder values are shown below:

 $6.03\emptyset$: 5.831 Ω : 10.88 \emptyset : 4.206 Ω

Flange1 is up stream of the new shielding wall; Flange 2 is 1st flange downstream of the shielding wall; Flange3 is the downstream flange on GZero diagnostic girder. The diagnostics on the superharp girder z values are based on previous surveys (Memo C1048). A n/a (not available) notation for the distance from hall center value indicates that no measurement was made.

The Ferris Wheel, SMS and GZero Back target were also located. The measurements are based on the ideal fiducialized center or the components, and their as-found locations. The hall center distance, dx, dy units are as above. Yaw pitch and roll angles (units decimal degrees) are also shown and are based on the overall CEBAF coordinate system.

Component	Dist Hall Center (m)	dx (mm)	dy (mm)	Yaw (deg)	Pitch (deg)	Roll (deg)
Ferris	19.437	-1.04	-0.49	-142.509	0.015	0.010
SMS	22.271	0.09	-0.26	-142.459	0.008	0.005
GZero Target	22.462	4.59	-1.90	-142.331	0.310	-0.637

Note on GZero superharp girder: The equipment listed on page 1, IPM3HG0A, IHA3HG0, IOR3HG0, IHA3HG0A, IPM3HG0B, and Flange 3 were originally located relative to the girder's tooling balls on March 13th, 2006. As it is assumed that the equipment on the girder did not move, the girder's tooling balls were again surveyed during the July 13th /17th surveys. A transformation was then used to derive the current location for the girder's equipment.