



Jefferson Lab Alignment Group

Data Transmittal

TO: D. Gaskell, J. Benesch, M. Keesee, C. Seaton, K. Cole

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FROM: Chris Gould

Checked:

: C1834

DETAILS:

M:\align\DATA\Step2B\BSY\3C_12\171128A

Listed below are the positions of IHA3H07A & B and their respective encoder values in decimal format. Locations relative to the target are along beam center where a +X is beam left, a +Y is up and a -Z is upstream of the target. Also included are the positions(in Beam Following) of the upstream and downstream BPM flanges located on the superharp girder.

	RELATIVE TO TARGET (mm)			ROTATIONS °		
	X	Y	Z	PITCH (rX)	YAW (rY)	ROLL (rZ)
IHA3H07A	0.01	-0.12	-2953.47	-0.0287	-0.0165	-0.0246
IHA3H07B	-0.12	0.02	-1545.80	0.0175	-0.0386	-0.0014

	IDEAL MECHANICAL (M)			FOUND MECHANICAL (M)		
	X	Y	Z	X	Y	Z
IHA3H07A	-122.51776	99.99750	-385.55341	-122.82339	99.99738	-385.95145
IHA3H07B	-123.64165	99.99750	-387.01720	-123.68055	99.99752	-387.06806

SUPER HARP ENCODER VALUES (Decimal)

	Outer Vert. Wire (harp retracted)	Middle Horiz. Wire	Inner Vert. Wire (harp extended)
IHA3H07A	167612	196690	227679
IHA3H07B	44813	78194	107249

Home Encoder value

IHA3H07A	117440
IHA3H07B	820

BFS

	X	Y
IPM3H07A_US	0.02	-0.37
IPM3H07A_DS	-0.04	-0.17
IPM3H07B_US	0.03	-0.22
IPM3H07B_DS	-0.05	-0.22
IPM3H07C_US	-0.03	0.10
IMP3H07C_DS	-0.31	0.22