Jefferson Lab Alignment Group

Data Transmittal

TO: D. Gaskell, J. Benesch		**DATE:** 17 Aug 2021
FROM: Kelly Tremblay	**Checked:** LEB	**# :** C1999

DETAILS:

Data : M:\align\DATA\Step2B\BSY\3C_12\210812A

Listed below are components on the 3H line super harp girder and the MBE3H magnet as found data.
The found coordinates are in the CEBAF coordinate system. The Beam Following coordinates are the amount offset from the design (ideal) location, where a +X is beam left, a +Y is up and +Z is downstream from the ideal. Beam following values are in millimeters. Distance to target is upstream of the design Hall C target. The delta angles are the difference from design shown in degrees.

	Found - Meters			Beam Following - MM			Meters	Delta Angles - degrees		
component	X	Y	Z	dx	dy	dz	to target	Yaw	Pitch	Roll
MBE3H05	-119.34810	99.97865	-381.42521	-0.02	-0.19	0.02	8.6600	-0.0033	-0.0279	0.0183
IUN3H05	-120.20753	99.98770	-382.54450	-0.03	-0.51		7.2488			
MBE3H06	-121.17141	99.99701	-383.80012	0.01	0.15	0.32	5.6659	-0.0045	-0.0170	-0.0003
MBE3H07	-122.01054	99.99765	-384.89261	0.11	0.15	-0.08	4.2883	-0.0006	-0.0026	-0.0095
BPM3H07A	-122.67221	99.99733	-385.75478	-0.05	0.17		3.2015			
IHA3H07A	-122.82469	99.99750	-385.95339	-0.14	0.00	-0.10	2.9511	-0.1150	-0.0209	0.0201
BPM3H07B	-123.25210	99.99698	-386.51034	0.13	0.52		2.2491			
IHA3H07B	-123.68024	99.99731	-387.06758	-0.07	-0.19	0.91	1.5463	-0.0198	-0.1155	0.0415
BPM3H07C	-123.84062	99.99767	-387.27690	0.16	-0.17		1.2826			