Jefferson Lab Alignment Group

Jefferson Lab -

Data Transmittal

Data Hansinita Data Hansinita DATE: 11 Feb 2025							
TO: D. Gaskell		DATE:	11 Feb 2025				
FROM: Elena Balan	Checked: SEH		#: C2128				

DETAILS:

M:\align\DATA\Step2B\BSY\3C_12\250129A

Super-harp girder and surrounding area beampipe was surveyed on January 29th 2025. The found coordinates are in the CEBAF coordinate system. The Beam Following coordinates represent the amount offset from the design (ideal) location. The results are relative to a beam-following coordinate system; +X is on the left of the beam, +Y is above the beam, and +Z is downstream. Angles are reported using the right-hand rule; +Pitch is a counter-clockwise rotation looking from left, +Yaw is a counter-clockwise rotation looking from above, and +Roll is a counter-clock rotation looking from downstream.

	CEE	CEBAF Coord. System Bea			Beam Following Coord. System			Angular Data [deg.]		
Component	X[m]	Y[m]	Z[m]	ΔX[mm]	ΔY[mm]	ΔZ[mm]	Yaw	Pitch	Roll	
IPM3H07A	-122.66955	99.99724	-385.75129	-0.04	-0.27					
IHA3H07A	-122.82506	99.99751	-385.95349	0.10	0.01	0.20	-0.03205	-0.02378	-0.08222	
IPM3H07B	-123.25284	99.99708	-386.51213	-0.64	-0.42					
IHA3H07B	-123.68039	99.99751	-387.06767	0.00	0.01	1.07	-0.00529	0.02779	-0.00573	
IPM3H07C	-123.84227	99.99736	-387.27900	-0.22	-0.15					
BEAMPIPE_DS	-123.95346	99.99782	-387.42304	0.15	0.32					
GIR_DS	-123.95285	99.99742	-387.42351	-0.43	-0.08					
TGTCAN_US	-124.23951	100.00026	-387.79469	0.70	2.76					