



Jefferson Lab Alignment Group

Data Transmittal

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Checked: JC

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DETAILS:

Data: Step2B\HALLC\Target\180613A

Below are the results of the 06/13/2018 Hall C target survey. The upstream loop positions were determined by measuring the downstream face of the target block and projecting the location of the adjacent flange to it. The loop position at target centerline was calculated by shifting the upstream loop location normal to the block face the found distance. The ideal Z value of the downstream target block face is 103.02mm to target centerline (DWG TGT-301-1001-0110). The results are relative to a beam-following coordinate system; +X is left of beam, +Y is above beam, +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.

Hall C Target Survey Results					
Component	X(mm)	Y(mm)	Z(mm)	Pitch(°)	Yaw(°)
US Loop1 4cm	-0.62	-3.90	-102.86	0.088	-0.438
Loop1 4cm Proj. Tgt. Cl.	-1.38	-4.06	0.00		
US Loop1 10cm	-0.50	-3.89	-102.78	0.122	-0.255
Loop1 10cm Proj. Tgt. Cl.	-0.95	-4.10	0.00		
US Loop2 10cm	0.00	-3.87	-102.84	-0.018	-0.344
Loop2 10cm Proj. Tgt. Cl.	-0.60	-3.84	0.00		
US Loop3 10cm	0.32	-4.16	-102.58	-0.024	-0.359
Loop3 10cm Proj. Tgt. Cl.	-0.31	-4.12	0.00		
Target Ladder				0.095	-0.358
Carbon Hole	0.14	-3.81			