



Jefferson Lab Alignment Group

Data Transmittal

TO: T. Whitlatch

DATE: 12/12/2019

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Checked: KJT

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DETAILS:

M:\align\DATA\Step2B\HallID\TAGGER\Hodoscope\191101A

Below are the results of the Hodoscope Plate survey from November 11th. The hodoscope ideals are to the top upstream beam right corners of each hodoscope. Beam following offsets from ideal are along the 8.05 deg. beam line. For the offset values, a +Z is downstream, a +X is to the beam left, and a +Y is above.

Meas. Plane	Corner	X[m]	Y[m]	Z[m]	dx[mm]	dy[mm]	dz[mm]	d_yaw	yaw_BR	yaw_BL
HODPL1	h1-ideal	79.71819	104.77080	303.09960	0.54	-1.13	0.04	-0.0071	-8.0568	-8.0501
	h1-top-bl-ds	79.68836	104.76990	304.40762	153.64	-0.84	1299.31			
	h1-top-br-ds	79.53658	104.76980	304.38638	0.38	-0.94	1299.53			
	h1-top-br-us	79.71871	104.76967	303.09972	0.54	-1.13	0.04			
	h2-top-bl-us	79.87039	104.76977	303.12058	153.64	-1.03	-0.54			
HODPL2	h2-ideal	79.53589	104.77080	304.38852	1.10	-0.59	-0.18	-0.0054	-8.0551	-8.0517
	h2-top-bl-ds	79.50590	104.77055	305.68913	152.44	-0.19	1292.00			
	h2-top-bl-us	79.68687	104.77076	304.40984	152.48	-0.04	-0.03			
	h2-top-br-ds	79.35591	104.77000	305.66809	0.98	-0.74	1292.17			
	h2-top-br-us	79.53700	104.77021	304.38850	1.10	-0.59	-0.18			
HODPL3	h3-ideal	79.35469	104.77080	305.66962	-0.06	-0.10	0.39	-0.0499	-8.1000	-8.2924
	h3-top-bl-ds	79.36297	104.77067	306.67783	149.39	-0.09	997.12			
	h3-top-bl-us	79.50673	104.77027	305.69147	153.60	-0.53	0.34			
	h3-top-br-ds	79.21408	104.77109	306.65714	-0.93	0.33	997.48			
	h3-top-br-us	79.35457	104.77070	305.67000	-0.06	-0.10	0.39			
HODPL4	h4-ideal	79.21456	104.77080	306.66052	0.07	-0.44	-0.82	0.1609	-7.8891	-7.8894
	h4-top-bl-ds	79.22239	104.77124	307.72372	156.64	0.49	1051.63			
	h4-top-bl-us	79.36694	104.77112	306.68059	153.69	0.32	-1.46			
	h4-top-br-ds	79.07026	104.77049	307.70239	3.02	-0.26	1051.81			
	h4-top-br-us	79.21474	104.77036	306.65972	0.07	-0.44	-0.82			
HODPL5	h5-ideal	79.06693	104.77080	307.70424	1.24	-0.59	0.21	-0.0777	-8.1279	-8.1276
	h5-top-bl-ds	79.07144	104.77044	308.75821	152.06	-0.31	1042.95			
	h5-top-bl-us	79.21924	104.77084	307.72329	153.48	0.04	-2.47			
	h5-top-br-ds	78.92074	104.76982	308.73663	-0.17	-0.93	1042.69			
	h5-top-br-us	79.06813	104.77021	307.70462	1.24	-0.59	0.21			

Meas. Plane	Corner	X[m]	Y[m]	Z[m]	dx[mm]	dy[mm]	dz[mm]	d_yaw	yaw_BR	yaw_BL
HODPL6	h6-ideal	78.89797	104.77080	308.89910	1.71	-1.84	0.48	-0.0437	-8.0933	-8.0714
	h6-top-bl-ds	78.88233	104.76984	310.10936	154.00	-0.91	1200.52			
	h6-top-bl-us	79.05081	104.76980	308.92130	154.44	-1.00	0.58			
	h6-top-br-ds	78.73066	104.76900	310.08778	0.79	-1.75	1200.40			
	h6-top-br-us	78.89959	104.76897	308.89982	1.71	-1.84	0.48			
HODPL7	h7-ideal	78.72192	104.77080	310.14375	0.64	-1.67	-0.56	-0.0255	-8.0756	-8.0754
	h7-top-bl-ds	78.70401	104.76877	311.36020	152.62	-1.97	1206.98			
	h7-top-bl-us	78.87362	104.76918	310.16478	153.15	-1.61	-0.42			
	h7-top-br-ds	78.55293	104.76871	311.33932	0.10	-2.03	1207.45			
	h7-top-br-us	78.72263	104.76913	310.14329	0.64	-1.67	-0.56			
HODPL8	h8-ideal	78.52604	104.77080	311.56473	0.48	-0.85	-0.08	0.0279	-8.0221	-8.0217
	h8-top-bl-ds	78.55325	104.76856	312.46793	153.42	-2.19	890.50			
	h8-top-bl-us	78.67753	104.76931	311.58606	152.98	-1.49	-0.10			
	h8-top-br-ds	78.40227	104.76921	312.44641	0.92	-1.55	890.33			
	h8-top-br-us	78.52653	104.76995	311.56472	0.48	-0.85	-0.08			