



Jefferson Lab Alignment Group

Data Transmittal

TO: D. Gaskell

DATE: 10/08/2019

FROM: Kelly Tremblay

Checked: SEH

: A1940

DETAILS:

data: step2b\bsy\1c_12\191007a

Components in the Hall A Compton region were surveyed October 7th, 2019. The two tables below show the as found location and the offset locations for the listed components. The offsets from the beam in the beam following system plus the horizontal distance (s) from the target (hall center, not Apex target) are shown.

US_ is the upstream end and DS_ is the downstream end for the components. APRTR_A and _B are the apertures identified by Dave Gaskell. In the As found data, there was no shot on the downstream end of IP1P02B.

The coordinates s,x,y,z are in meters and are in the CEBAF coordinate system. dx/dy are in a local beam following system in millimeters. A positive dx is to the left of designed beam; a positive dy is above the designed beam.

As Found results						
	S[m]	X[m]	Y[m]	Z[m]	dx bfs[mm]	dy bfs[mm]
US_IPM1P01	37.389	-55.72119	99.88984	-363.37000	2.4	-3.6
DS_IPM1P01	37.220	-55.61829	99.88292	-363.50329	1.9	-3.8
US_IPM1P02A	34.421	-53.91532	99.80970	-365.72484	3.2	3.2
DS_IPM1P02A	34.199	-53.78115	99.80865	-365.90189	4.6	2.2
US_APRTR_A	34.098	-53.71965	99.80826	-365.98255	4.9	1.8
DS_APRTR_A	34.016	-53.67011	99.80853	-366.04777	5.3	2.0
US_APRTR_B	33.169	-53.15348	99.80360	-366.71920	4.2	-2.9
DS_APRTR_B	33.044	-53.07787	99.80199	-366.81766	4.1	-4.5
US_IPM1P02B	32.929	-53.00680	99.80163	-366.90915	3.4	-4.9
As Set results						
	S[m]	X[m]	Y[m]	Z[m]	dx bfs[mm]	dy bfs[mm]
US_IPM1P02A	34.421	-53.91217	99.80572	-365.72243	-0.7	-0.8
DS_IPM1P02A	34.199	-53.77791	99.80681	-365.89940	0.5	0.3
US_APRTR_A	34.098	-53.71642	99.80673	-365.98007	0.8	0.2
DS_APRTR_A	34.016	-53.66673	99.80759	-366.04518	1.0	1.1
US_APRTR_B	33.169	-53.15024	99.80778	-366.71672	0.1	1.3
DS_APRTR_B	33.044	-53.07479	99.80693	-366.81529	0.2	0.4
US_IPM1P02B	32.929	-53.00378	99.80720	-366.90684	-0.4	0.7
DS_IPM1P02B	32.772	-52.90804	99.80782	-367.03024	-1.2	1.3