



Jefferson Lab Alignment Group

Data Transmittal

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DATE: 10/09/2019

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Checked:

: B1941

DETAILS:

DATA: M:\align\DATA\Step2B\HALLB\HPS_19\190911A
M:\align\DATA\Step2B\HALLB\HPS_19\190919A

Below are the post run as-founds for the summer 2019 HPS run. The positions are given in the CEBAF Machine coordinates. The deltas are listed in a beam following system relative to the ideal component location. A positive X is to the beam left, a positive Y is up and a positive Z is downstream. A positive Yaw angle is counterclockwise viewed from above, a positive pitch angle is clockwise viewed from the left and a positive roll angle is clockwise looking downstream.

Magnets	CEBAF IDEAL (M)		
	X	Y	Z
US FRASCATTI	-80.60000	103.35526	-415.57178
PAIR SPEC	-80.68860	103.35526	-417.75288
DS FRASCATTI	-80.60000	103.35526	-419.93398

Summary	MEASURED (M)			Delta BFS (mm)					
	X	Y	Z	X	Y	Z	YAW	PITCH	ROLL
PAIR SPEC.	-80.68905	103.35474	-417.75661	0.45	-0.52	3.73	-0.0645	0.0129	-0.0003

SVT Tooling Balls	X (M)	Y (M)	Z (M)
HPSSVTA	-80.68844	103.28097	-417.02215
HPSSVTB	-80.56162	103.42958	-417.02230
HPSSVTC	-80.81579	103.42957	-417.02196
Top_Motor_Fid	-80.59721	103.40636	-416.86942
Bot_Motor_Fid	-80.59691	103.30908	-416.86986
HPSSVTD	-80.68994	103.28112	-418.28591
HPSSVTE	-80.56275	103.42947	-418.28597
HPSSVTF	-80.81683	103.42957	-418.28570

	X	Y	Z	YAW	PITCH	ROLL
HODOSCOPE	-80.59042	103.35438	-418.64333	0.02722	0.00974	0.01375
Hodo Tooling Balls						
B	-80.94042	103.59105	-418.64311			
C	-80.44037	103.59091	-418.64337			
D	-80.29826	103.35425	-418.64346			
E. Cal Tooling Balls						
CTOP_A	-80.30184	103.58908	-418.74627			
CTOP_B	-80.30202	103.58890	-418.89621			
CTOP_C	-81.11611	103.58915	-418.74847			
CTOP_D	-81.11655	103.58828	-418.89895			
CBOT_A	-80.30153	103.12427	-418.74434			
CBOT_B	-80.30432	103.12426	-418.89332			
CBOT_C	-81.11993	103.12416	-418.74191			
CBOT_D	-81.12040	103.12410	-418.89518			