



Jefferson Lab Alignment Group

Data Transmittal

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DATE: 10/26/2021

FROM: Chris Gould

Checked: SEH

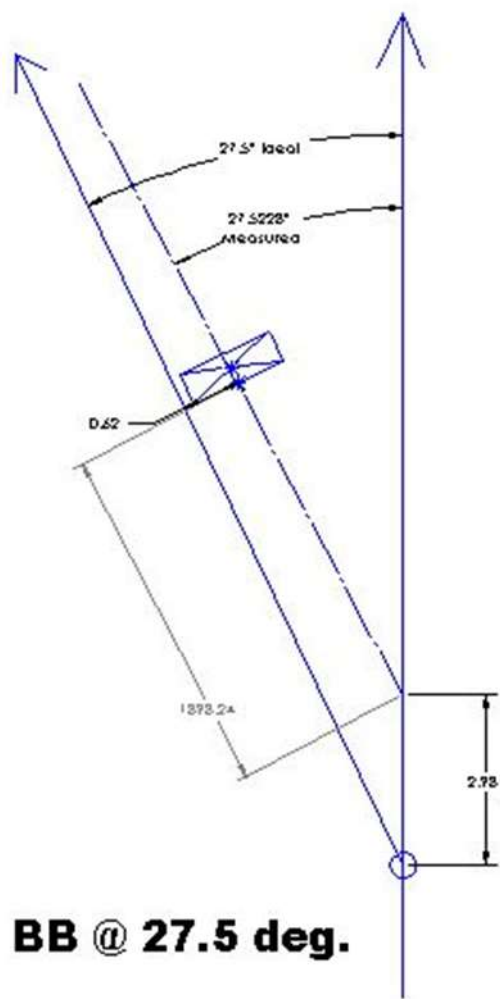
: A2016

DETAILS:

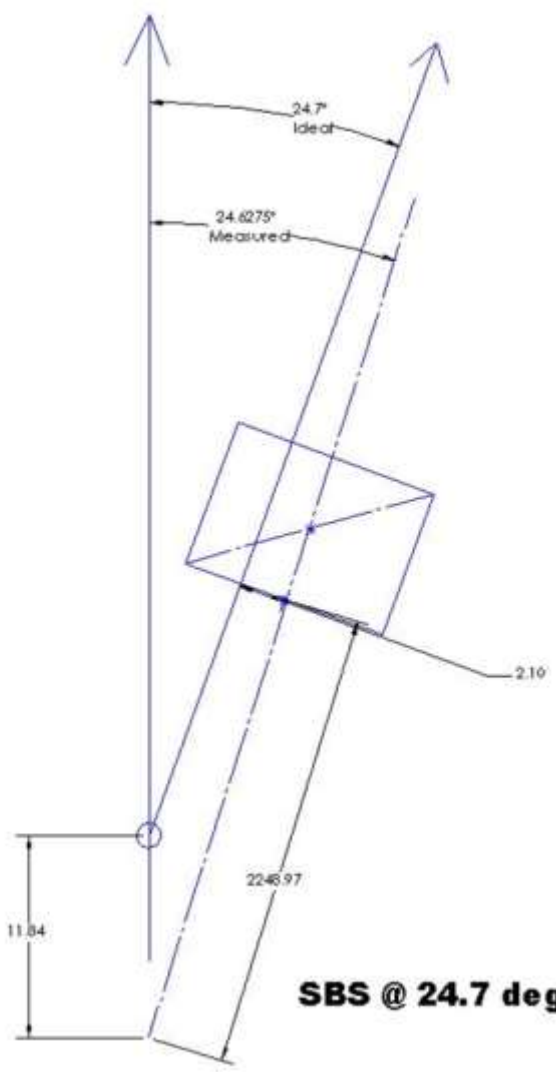
Step2B\HALLA\SBS\211026A, Step2B\HALLA\SBS\211026B Step2B\HALLA\SBS\211026C

Below are the survey results of the Big Bite magnet positioned at 27.5 degrees and the SBS magnet and HCal detector positioned at 24.7 degrees. In a beam following coordinate system a + X is to the beam left, a + Y is above and a + Z is downstream of the ideal position.

	Ideal Dist From Tgt (Meters)	Beam Following (mm)			Rotations From Ideal(Degrees)			
		X	Y	Z	RX(pitch)	RY(yaw)	RZ(roll)	
Correctors								
SBSCM01	2.105	-0.57	-3.52	11.10	-0.3555	0.4998	-0.0235	
SBSCM02	3.999	-1.31	0.17	4.82	-0.2212	0.6302	0.0845	
Big Bite @ 27.5 Deg.								
BigBite Mag	1.800	-0.62	-1.23	-1.75	-0.0442	0.0228	0.0591	
BigBite Det	5.0892	13.37	11.07	88.49	-10.2553	-0.4022	-0.1326	
Super Big Bite								
SBS Mag @24.7 Deg	2.250	-2.10	4.66	-1.04	0.0007	0.0725	-0.0309	
HCal @ 24.7 Deg	12.000	-1.70	1.52	-3.27	-0.0948	-0.0122	0.0186	



BB @ 27.5 deg.



SBS @ 24.7 deg.

