



Jefferson Lab Alignment Group

Data Transmittal

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DETAILS:

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Below are the locations of the BPM's in the Spreader, Recombiner, SW Extraction and Transport regions. Positions are given in the CEBAF coordinate along with a beam following system. In the BFS, a positive X value is to the beam left and a positive Y value is above beam center.

1st Spreader

Name	CEBAF Coordinates		BFS	
	X(M)	Y(M)	X(mm)	Y(mm)
IPM1S00_US	80.59904	101.21381	-0.96	-2.72
IPM1S00_DS	80.59902	101.28709	-0.98	-2.82
IPM3S00_US	80.60234	100.76139	2.34	-2.33
IPM3S00_DS	80.60152	100.82261	1.52	-0.53
IPM5S00_US	80.60065	100.62659	0.65	-0.32
IPM5S00_DS	80.59986	100.65633	-0.14	-1.41
IPM7S00_US	80.59791	100.38122	-2.09	0.41
IPM7S00_DS	80.59622	100.38120	-3.78	0.39
IPM7S03A_US	80.59958	100.44815	-0.42	0.29
IPM7S03A_DS	80.59964	100.45646	-0.36	0.48
IPM9S00_US	80.60069	100.26182	0.69	-0.34
IPM9S00_DS	80.60027	100.25489	0.27	-0.10
IPMBS00_US	80.60036	100.17666	0.36	-0.87
IPMBS00_DS	80.59965	100.17249	-0.35	0.95

1st Recombiner

Name	CEBAF Coordinates		BFS	
	X(M)	Y(M)	X(mm)	Y(mm)
IPM1R10A_US	-80.60117	100.45558	1.17	-1.59
IPM1R10A_DS	-80.60125	100.41177	1.25	-0.88
IPM3R10A_US	-80.59811	100.54398	-1.89	0.31
IPM3R10A_DS	-80.59729	100.50315	-2.71	-1.84
IPM5R10A_US	-80.59822	100.48295	-1.78	0.39
IPM5R10A_DS	-80.59814	100.45224	-1.86	0.95
IPM7R07A_US	-80.59924	100.42736	-0.76	-4.06
IPM7R07A_DS	-80.60050	100.41750	0.50	-4.65

2nd Spreader

Name	CEBAF COORDINATES		BFS		PASS AT	
	X(M)	Y(M)	X(mm)	Y(mm)	X(mm)	Y(mm)
IPM2S00_US	-80.59879	101.30128	-1.21	-2.90		
IPM2S00_DS	-80.59870	101.35150	-1.30	-2.76		
IPM4S00_US	-80.59844	100.79105	-1.56	-2.14		
IPM4S00_DS	-80.59830	100.83898	-1.70	-2.52		
IPM6S00_US	-80.59760	100.60678	-2.40	-0.26		
IPM6S00_DS	-80.59945	100.62705	-0.55	-2.96		
IPM6S03A_US	-80.59947	100.94394	-0.53	-2.78		
IPM6S03A_DS	-80.59939	100.95950	-0.61	-2.05		
IPM8S03A_US	-80.60148	100.46091	1.48	-3.01		
IPM8S03A_DS	-80.60139	100.47147	1.39	-1.64		
IPMAS00_US	-80.60001	100.28614	0.23	-1.49	0.23	8.64
IPMAS00_DS	-80.60023	100.28641	0.01	-1.76	0.01	8.37

2nd Recombiner

Name	CEBAF COORDINATES		BFS	
	X(M)	Y(M)	X(mm)	Y(mm)
IPM2R10A_US	80.59885	100.35957	-1.15	1.49
IPM2R10A_DS	80.59804	100.31887	-1.96	1.51
IPM4R10A_US	80.59969	100.44943	-0.31	-6.33
IPM4R10A_DS	80.59981	100.41574	-0.19	-6.06
IPM6R07A_US	80.60192	100.85659	1.92	-1.98
IPM6R07A_DS	80.60152	100.84383	1.52	-2.43
IPM6R10A_US	80.59900	100.61548	-1.00	-1.12
IPM6R10A_DS	80.59833	100.58318	-1.67	-1.56
IPM8R07A_US	80.60064	100.38514	0.64	-1.91
IPM8R07A_DS	80.60093	100.37934	0.93	-1.72
IPMAR09A_US	80.60045	100.27762	0.45	-0.15
IPMAR09A_DS	80.60074	100.27804	0.74	0.27

Injector

Name	CEBAF COORDINATES		BFS	
	X(M)	Y(M)	X(MM)	Y(mm)
IPM4D00_DS	78.18846	100.00070	0.78	0.70
IPM4D00_US	78.28474	99.99987	0.54	-0.13

East & West Arcs

Name	CEBAF COORDINATES		BFS	
	X(M)	Y(M)	X(MM)	Y(mm)
IPM1A10_US	59.32413	102.00045	0.08	0.45
IPM1A10_DS	59.16165	102.00014	-0.34	0.14
IPM2A10_US	-59.43193	102.00165	-1.03	1.65
IPM2A10_DS	-59.28843	102.00091	-0.75	0.91

SW Extraction

Name	CEBAF COORDINATES		BFS	
	X(M)	Y(M)	X(MM)	Y(mm)
IPM2E03_US	-80.61109	101.99958	-0.68	-0.42
IPM2E03_DS	-80.61165	102.00057	-0.12	0.57
IPM4E03_US	-80.61189	101.50011	0.12	0.11
IPM4E03_DS	-80.61254	101.50011	0.77	0.11
IPM6E03_US	-80.61490	100.99967	0.49	-0.33
IPM6E03_DS	-80.61498	100.99940	0.57	-0.60
IPM8E03_US	-80.61377	100.49941	-0.64	-0.59
IPM8E03_DS	-80.61390	100.49943	-0.51	-0.57
IPMAE03_US	-80.61436	100.00049	-0.05	0.49
IPMAE03_DS	-80.61463	99.99988	0.22	-0.12
IPM2T00A_US	-80.95587	101.99837	1.12	-1.63
IPM2T00A_DS	-80.95816	101.99910	-0.94	-0.90
IPM4T00A_US	-80.95519	101.49878	0.41	-1.22
IPM4T00A_DS	-80.95683	101.49982	-2.42	-0.18
IPM6T00A_US	-80.92475	100.99822	1.52	-1.78
IPM6T00A_DS	-80.92853	100.99781	-0.42	-2.19
IPM8T00A_US	-80.92337	100.49817	-0.42	-1.83
IPM8T00A_DS	-80.92898	100.49821	-0.36	-1.79
IPMAT00A_US	-80.92270	99.99957	1.28	-0.43
IPMAT00A_DS	-80.92898	99.99805	-0.08	-1.95
IPM2T00B_US	-80.63369	101.99730	1.24	-2.70
IPM2T00B_DS	-80.62824	101.99821	2.68	-1.79
IPM4T00B_US	-80.63031	101.49886	-2.02	-1.14
IPM4T00B_DS	-80.62500	101.49939	-0.32	-0.61
IPM6T00B_US	-80.64990	100.99955	-0.35	-0.45
IPM6T00B_DS	-80.64266	101.00001	-0.78	0.01
IPM8T00B_US	-80.65062	100.49944	0.08	-0.56
IPM8T00B_DS	-80.64216	100.49882	-1.26	-1.18
IPMAT00B_US	-80.64878	100.00042	-1.77	0.42
IPMAT00B_DS	-80.64250	99.99937	-1.19	-0.63