



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** T. Whitlatch

**DATE:** 31 Jul 2008

**FROM:** J. Dahlberg

**Checked:**

**# :** D1177

**DETAILS:**

Data: Inspection\HallD\BarrelColorimeter\080715a

Below are the results from the sag survey performed on the Hall D lead barrel collimator. A right-handed coordinate system (in millimeters) was established off the Aluminum strong back. The top narrow edge of the Al controlled the pitch and the side controlled the roll and yaw. Therefore, the sag (Y values) would be perpendicular to the side of the Al. Where, accessible, measurements on the top of the Al surface opposite the Pb points were also measured.

LOC.	Z	X	Y	LOC.	Z	X	Y
Pb1a	5.50	-34.53	-0.35	Al8a	1045.00	-10.66	0.13
Pb1b	10.35	-101.33	-0.38	Pb8b	1044.31	-24.59	0.06
Pb1c	7.28	-182.23	-0.38	Pb8c	1046.24	-91.06	-0.05
Al2a	137.43	-8.50	-0.14	Pb8d	1031.76	-185.43	-0.18
Pb2b	138.18	-30.46	-0.18	Al9a	1164.21	-11.88	0.15
Pb2c	136.91	-107.88	-0.28	Pb9b	1164.92	-102.10	-0.02
Pb2d	142.19	-181.06	-0.37	Pb9c	1155.01	-102.80	-0.09
Al3a	285.88	-8.85	-0.09	Pb9d	1142.77	-178.23	-0.18
Pb3b	289.89	-27.05	-0.22	Al10a	1336.85	-9.70	0.10
Pb3c	286.74	-94.66	-0.22	Pb10b	1337.86	-35.89	-0.10
Pb3d	293.88	-181.14	-0.32	Pb10c	1338.31	-114.65	-0.16
Al4a	442.21	-10.38	-0.03	Pb10d	1343.57	-175.94	-0.35
Pb4b	433.95	-24.21	-0.15	Al11a	1480.88	-11.15	0.02
Pb4c	431.61	-98.04	-0.16	Pb11b	1478.99	-30.14	-0.03
Pb4d	428.30	-184.08	-0.28	Pb11c	1479.02	-107.37	-0.31
Al5a	597.84	-9.50	0.04	Pb11d	1475.24	-182.74	-0.57
Pb5b	607.24	-28.83	-0.10	Al12a	1644.84	-11.47	-0.13
Pb5c	609.97	-108.93	-0.16	Pb12b	1625.50	-29.18	-0.20
Pb5d	618.84	-181.18	-0.25	Pb12c	1622.16	-111.13	-0.52
Al6a	738.02	-11.42	0.08	Pb12d	1617.51	-181.97	-0.79
Pb6b	740.19	-26.23	-0.04	Al13a	1786.39	-15.55	-0.20
Pb6c	750.73	-78.71	-0.05	Pb13b	1785.24	-24.91	-0.45
Pb6d	746.12	-180.22	-0.24	Pb13c	1776.30	-107.21	-0.74
Al7a	886.66	-8.66	0.12	Pb13d	1769.18	-179.86	-1.05
Pb7b	895.53	-31.28	0.04	Pb14a	1853.00	-90.79	-0.67
Pb7c	894.10	-98.25	-0.07	Pb14b	1845.62	-173.94	-0.92
Pb7d	889.41	-178.14	-0.22	Pb14c	1954.73	-88.83	-0.75
				Pb14d	1960.56	-179.70	-1.15