



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** L. Lee, D. Gaskell

**DATE:** 01 Dec 2005

**FROM:** J. Dahlberg

**Checked:**

**# :** C1025

**DETAILS:**

Below are the results from the survey performed on the G0 back angle octant fiducial points. A right handed coordinate system was established based on a "best fit" centerline of the upstream octants ideal location. The Z origin is centered on the ferris wheel aperture. A + X is to the beam left, a + Z is downstream, and a +Y is up. Note: when the ferris wheel is positioned into the beam line, a report on the final location of the tooling balls, individual center points of the upstream octants, along with the downstream octant foam corners and detector points will be published.

UPSTREAM OCTANTS				DOWNSTREAM OCTANTS			
T. ball	Z	X	Y	T. ball	Z	X	Y
11	-781.86	762.65	2501.86	1TBA	1650.69	-662.68	2287.58
13	-782.65	-761.60	2502.05	1TBB	1651.62	652.98	2286.14
14	-783.85	0.32	838.25	1TBC	1691.74	349.86	1738.48
21	-782.70	-762.07	-2501.48	1TBD	1698.92	-358.60	1738.32
23	-782.31	762.23	-2501.39	2TBA	1650.78	1148.09	2085.47
24	-783.44	-0.01	-837.67	2TBB	1651.40	2081.84	1152.39
31	-783.20	2502.60	-760.74	2TBC	1688.06	1478.02	977.71
33	-783.11	2502.08	763.53	2TBD	1687.48	976.93	1478.87
34	-783.95	838.59	0.90	3TBA	1651.51	2286.20	660.02
41	-783.54	-2501.95	762.90	3TBB	1652.85	2288.26	-657.95
43	-782.85	-2501.57	-761.30	3TBC	1689.74	1741.22	-352.39
44	-783.83	-838.07	1.28	3TBD	1689.43	1736.54	356.19
51	-855.52	2456.86	1092.88	4TBA	1651.99	2086.19	-1148.99
52	-853.91	1091.96	2456.74	4TBB	1651.77	1156.28	-2084.29
53	-854.02	419.25	831.51	4TBC	1687.53	984.64	-1481.37
54	-855.53	832.07	419.32	4TBD	1685.52	1483.55	-977.60
61	-854.64	1093.47	-2458.28	5TBA	1653.45	665.53	-2290.41
62	-855.09	2458.13	-1093.02	5TBB	1652.97	-658.81	-2291.64
63	-855.11	818.92	-414.05	5TBC	1682.94	-351.27	-1741.91
64	-854.55	414.19	-819.27	5TBD	1681.96	352.72	-1742.06
71	-854.85	-2457.72	-1092.55	6TBA	1653.42	-1148.70	-2089.37
72	-854.85	-1093.15	-2457.85	6TBB	1652.21	-2082.87	-1152.16
73	-854.93	-419.58	-833.02	6TBC	1687.76	-1474.91	-981.99
74	-854.75	-832.61	-419.90	6TBD	1688.02	-975.11	-1483.67
81	-854.42	-1091.90	2457.17	7TBA	1653.62	-2286.59	-664.50
82	-855.39	-2457.70	1092.65	7TBB	1652.97	-2288.14	653.60
83	-855.13	-832.84	418.96	7TBC	1688.73	-1738.02	351.06
84	-854.96	-419.91	831.69	7TBD	1690.73	-1737.37	-358.17
				8TBA	1652.47	-2086.85	1146.35
				8TBB	1652.27	-1156.05	2081.91
				8TBC	1698.53	-983.37	1476.47
				8TBD	1701.50	-1482.70	975.02