

Jefferson Lab Alignment Group

DATA TRANSMITTAL

TO: Steve Lassiter

DATE: 18 Feb 2000

FROM: Jim Dahlberg

Checked: # : 575

DETAILS:

Attached are the results of the survey performed on the beam left side of the G0 octant labeled #1. The coordinate system was formed from a best-fit transformation using the inside of the 0.5" plate as X=0 and the nominal Y, Z coordinates of the 0.25" holes. E53 through E64 are the holes located on the extension piece and E65 through E74 are the points located on the inside surface of the plate used to establish the coordinate system. The values are in inches with positive X to the beam left, positive Z downstream, and positive Y up.

target	X meas	Y meas	Z meas	X nomina	Y nom	Z nom	rms(Y/ Z)	delta X	delta Y
E1	-0.2204	63.8262	14.4641	0.0000	63.8270	14.4660	0.0021	-0.2204	-0.0000
E2	-0.2318	63.3326	14.2547	0.0000	63.3320	14.2570	0.0024	-0.2318	0.0006
E3	-0.2437	61.3696	12.7389	0.0000	61.3690	12.7430	0.0041	-0.2437	0.0006
E4	-0.2518	61.1619	13.2361	0.0000	61.1610	13.2390	0.0030	-0.2518	0.0009
E5	-0.2968	59.6856	14.7765	0.0000	59.6840	14.7790	0.0030	-0.2968	0.0016
E6	-0.2987	59.1901	14.5675	0.0000	59.1880	14.5700	0.0033	-0.2987	0.0021
E7	-0.2290	57.2190	13.0490	0.0000	57.2180	13.0510	0.0022	-0.2290	0.0010
E8	-0.2459	57.0111	13.5455	0.0000	57.0100	13.5470	0.0019	-0.2459	0.0011
E9	-0.2478	55.5378	15.0876	0.0000	55.5360	15.0890	0.0023	-0.2478	0.0018
E10	-0.1846	55.0421	14.8785	0.0000	55.0410	14.8800	0.0019	-0.1846	0.0011
E11	-0.2707	52.9222	13.2930	0.0000	52.9200	13.2940	0.0024	-0.2707	0.0022
E12	-0.2183	52.7185	13.7903	0.0000	52.7170	13.7920	0.0023	-0.2183	0.0015
E13	-0.2222	49.2102	20.3667	0.0000	49.2070	20.3670	0.0032	-0.2222	0.0032
E14	-0.2691	48.7066	20.1813	0.0000	48.7030	20.1810	0.0036	-0.2691	0.0036
E15	-0.2854	47.0087	18.8644	0.0000	47.0050	18.8650	0.0037	-0.2854	0.0037
E16	-0.2314	46.8271	19.3703	0.0000	46.8230	19.3710	0.0042	-0.2314	0.0041
E17	-0.3183	43.6223	25.9770	0.0000	43.6200	25.9790	0.0030	-0.3183	0.0023
E18	-0.2502	43.1125	25.8100	0.0000	43.1090	25.8120	0.0040	-0.2502	0.0035
E19	-0.2659	41.2112	24.5004	0.0000	41.2090	24.5040	0.0042	-0.2659	0.0022
E20	-0.2451	41.0493	25.0131	0.0000	41.0460	25.0160	0.0044	-0.2451	0.0033
E21	-0.2721	37.9109	32.4495	0.0000	37.9090	32.4520	0.0031	-0.2721	0.0019
E22	-0.1971	37.3939	32.3049	0.0000	37.3920	32.3070	0.0028	-0.1971	0.0019
E23	-0.2259	35.1508	30.9949	0.0000	35.1530	30.9930	0.0029	-0.2259	-0.0022
E24	-0.2301	35.0082	31.5122	0.0000	35.0100	31.5110	0.0022	-0.2301	-0.0018
E25	-0.3299	32.2732	38.9692	0.0000	32.2760	38.9670	0.0036	-0.3299	-0.0028
E26	-0.2078	31.7509	38.8459	0.0000	31.7530	38.8430	0.0036	-0.2078	-0.0021
E27	-0.2290	30.0140	37.7828	0.0000	30.0160	37.7810	0.0027	-0.2290	-0.0020
E28	-0.1906	29.8929	38.3067	0.0000	29.8940	38.3040	0.0029	-0.1906	-0.0011
E29	-0.2136	27.6817	45.0133	0.0000	27.6840	45.0110	0.0033	-0.2136	-0.0023
E30	-0.2126	27.1546	44.9082	0.0000	27.1570	44.9060	0.0033	-0.2126	-0.0024
E31	-0.2179	25.6703	43.9914	0.0000	25.6720	43.9890	0.0029	-0.2179	-0.0017
E32	-0.2141	25.5658	44.5175	0.0000	25.5680	44.5160	0.0027	-0.2141	-0.0022
E33	-0.1299	23.8020	50.4348	0.0000	23.8040	50.4330	0.0027	-0.1299	-0.0020
E34	-0.2319	23.2706	50.3485	0.0000	23.2740	50.3470	0.0037	-0.2319	-0.0034
E35	-0.2176	22.2464	49.5857	0.0000	22.2490	49.5840	0.0031	-0.2176	-0.0026
E36	-0.1911	22.1619	50.1162	0.0000	22.1640	50.1150	0.0024	-0.1911	-0.0021
E37	-0.2220	20.6691	55.7370	0.0000	20.6710	55.7360	0.0021	-0.2220	-0.0019
E38	-0.1989	20.1355	55.6709	0.0000	20.1380	55.6690	0.0031	-0.1989	-0.0025
E39	-0.1688	18.8952	54.9303	0.0000	18.8970	54.9290	0.0022	-0.1688	-0.0018
E40	-0.2472	18.8293	55.4643	0.0000	18.8300	55.4630	0.0015	-0.2472	-0.0007
E41	-0.2396	17.6038	60.9109	0.0000	17.6050	60.9100	0.0015	-0.2396	-0.0012
E42	-0.2423	17.0686	60.8644	0.0000	17.0700	60.8630	0.0020	-0.2423	-0.0014
E43	-0.2128	16.1582	60.2188	0.0000	16.1590	60.2190	0.0008	-0.2128	-0.0008
E44	-0.2121	16.1120	60.7546	0.0000	16.1130	60.7540	0.0012	-0.2121	-0.0010
E45	-0.2283	15.1549	65.4686	0.0000	15.1560	65.4680	0.0013	-0.2283	-0.0011

E46	-0.2016	14.6191	65.4415	0.0000	14.6200	65.4400	0.0017	-0.2016	-0.0009
E47	-0.2675	13.9443	64.8557	0.0000	13.9440	64.8540	0.0017	-0.2675	0.0003
E48	-0.2043	13.9156	65.3920	0.0000	13.9160	65.3910	0.0011	-0.2043	-0.0004
E49	-0.2249	13.1654	69.0744	0.0000	13.1660	69.0740	0.0007	-0.2249	-0.0006
E50	-0.2599	13.1565	69.6116	0.0000	13.1560	69.6110	0.0008	-0.2599	0.0005
E51	-0.1432	12.2377	69.0520	0.0000	12.2380	69.0520	0.0003	-0.1432	-0.0003
E52	-0.2287	12.2281	69.5907	0.0000	12.2270	69.5900	0.0013	-0.2287	0.0011
E53	-0.2060	11.5614	71.6259	0.0000	0.0000	0.0000			
E54	-0.2406	11.0250	71.6327	0.0000	0.0000	0.0000			
E55	-0.2412	10.0243	72.4109	0.0000	0.0000	0.0000			
E56	-0.2287	9.9179	73.2705	0.0000	0.0000	0.0000			
E57	-0.2313	9.4871	72.4176	0.0000	0.0000	0.0000			
E58	-0.2246	9.3833	73.2969	0.0000	0.0000	0.0000			
E59	-0.2454	8.4951	74.1027	0.0000	0.0000	0.0000			
E60	-0.2436	8.4352	74.9529	0.0000	0.0000	0.0000			
E61	-0.2479	7.9580	74.1289	0.0000	0.0000	0.0000			
E62	-0.2371	7.8981	74.9917	0.0000	0.0000	0.0000			
E63	-0.2158	7.4129	75.7997	0.0000	0.0000	0.0000			
E64	-0.2183	6.8800	75.8401	0.0000	0.0000	0.0000			
E65	0.0002	11.6784	68.3458	0.0000	0.0000	0.0000			
E66	-0.0181	2.6363	66.7252	0.0000	0.0000	0.0000			
E67	0.0197	18.0436	58.1104	0.0000	0.0000	0.0000			
E68	0.0123	4.6026	55.9051	0.0000	0.0000	0.0000			
E69	0.0046	33.9359	33.6459	0.0000	0.0000	0.0000			
E70	-0.0153	12.2517	34.4440	0.0000	0.0000	0.0000			
E71	-0.0125	50.9294	17.2272	0.0000	0.0000	0.0000			
E72	-0.0039	15.8809	21.1317	0.0000	0.0000	0.0000			
E73	-0.0030	64.6186	13.8600	0.0000	0.0000	0.0000			
E74	0.0160	34.5896	4.9004	0.0000	0.0000	0.0000			