



Jefferson Lab Alignment Group

Data Transmittal

TO: A. DiPetti

DATE: 10 Jan 2012

FROM: Tom Singleton

Checked:

: L1429

DETAILS:

data : inspection\magtest\1201006a

Below are the results of the recent inspection survey carried out on the floor/ceiling stand SPT 003-2030-1039. The data represents how well the manufacturer built the stand to design. The hole data represents a best fit alignment using the ideal coordinates of the holes. The cartridge data represents a best fit alignment using the ideal coordinates of the cartridges with the standard -12.4 mm correction along the Y axis to offset the survey targets. Values are based on a right handed coordinate system.

	IDEAL X M	IDEAL Y M	IDEAL Z M	FOUND X M	FOUND Y M	FOUND Z M	X DIF mm	Y DIF mm	Z DIF mm
HOLE									
ORIGIN	0.00000	0.00000	0.00000	-0.00031	0.00010	0.00033	-0.31	0.10	0.33
TOP	0.00000		0.00000	-0.00020		0.00001	-0.20		0.01
1RT-1C	-0.55677	2.17265	0.29017	-0.55672	2.17207	0.29022	0.05	-0.58	0.05
2RT-1C	-0.26678	1.67265	0.2032	-0.26676	1.67263	0.20318	0.02	-0.02	-0.02
2RT-2C	-0.64778	1.67265	0.2032	-0.64769	1.67246	0.20319	0.09	-0.19	-0.01
3RT-1C	-0.24191	0.67266	0.57244	-0.24195	0.67296	0.57255	-0.04	0.30	0.11
3RT-2C	-0.62291	0.67266	0.57244	-0.62293	0.67295	0.57231	-0.02	0.29	-0.13
1LF-C1	-0.23368	1.17266	-0.47061	-0.23377	1.17281	-0.47056	-0.09	0.15	0.05
1LF-2C	-0.61468	1.17266	-0.47061	-0.61470	1.17270	-0.47065	-0.02	0.04	-0.04
CARTRIDGE									
ORIGIN	0.00000	-0.01240	0.00000	-0.00021	-0.01336	0.00049	-0.21	-0.96	0.49
TOP	0.00000	-0.01240	0.00000	-0.00030		-0.00015	-0.30		-0.15
1RT-1C	-0.55677	2.30727	0.29017	-0.55654	2.30669	0.29044	0.23	-0.58	0.27
2RT-1C	-0.26678	1.80727	0.20320	-0.26700	1.80725	0.20308	-0.22	-0.02	-0.12
2RT-2C	-0.64778	1.80727	0.20320	-0.64779	1.80709	0.20303	-0.01	-0.18	-0.17
3RT-1C	-0.24191	0.80728	0.57244	-0.24202	0.80762	0.57238	-0.11	0.35	-0.06
3RT-2C	-0.62291	0.80728	0.57244	-0.62283	0.80764	0.57243	0.08	0.36	-0.01
1LF-C1	-0.23368	1.30726	-0.47061	-0.23379	1.30737	-0.47053	-0.11	0.11	0.08
1LF-2C	-0.61468	1.30728	-0.47061	-0.61454	1.30724	-0.47061	0.14	-0.04	0.00