



Jefferson Lab Alignment Group

Data Transmittal

TO: Joe Grames

DATE: 08 May 2013

FROM: Chris Gould

Checked:

: L1507

DETAILS:

data: Inspection\inj\130503A

Below are the results from the May 3rd, 2013 PEPPO survey. The main beamline (straight-ahead in line with north linac) coordinates are in the CEBA/JLAB coordinate system. For components in the Peppo beam line, the coordinates are also in the JLAB system and a local system (Peppo local with a point on the main beam line of 80.6000,100.0000,-243.25818). The Peppo local system is rotated about the Y axis negative 25. For the beam following coordinates a +X is to the beam left, and a +Y is up. Values are in millimeters for the beam following data. Angular components for yaw and pitch are shown. A positive yaw is counter clockwise about the Y axis, and a positive pitch is counter clockwise using the X axis. The Peppo angular data is based on the Peppo system.

Peppo Line (JLab Coord System)				Peppo Coord System			Angular (Deg)		
Components	X(m)	Y(m)	Z(m)	x(mm)	y(mm)	z(mm)	Yaw	Pitch	Roll
5D00FLG1	80.3880	99.9985	-242.7953	3.5	-1.6	509.2			
ITG5D01FLG	79.9863	99.9999	-241.9448	-1.1	-0.2	1449.7			
ISC5D03R	79.74306	99.9996	-241.8389	-176.8	-0.5	1648.5			
ISC5D03L	79.6130	99.9959	-241.5038	-153.4	-4.6	2007.0			
MCP5D02_US	79.9346	100.0014	-241.8322	-0.4	1.28	1573.6			
MCP5D02_DS	79.8983	100.0001	-241.7505	1.2	-0.1	1663.0			
Spectrometer Top	79.6254	100.1453	-241.6969	-223.5	145.2	1826.9	-89.98	89.99	-0.02
Spectrometer Bottom	79.6204	99.8564	-241.6992	-228.9	-143.7	1826.9	-89.97	90.02	-0.01

2D00FLG1	80.8364	99.9991	-242.8491
3D00FLG1	80.6706	99.9999	-242.9305
USIPM2D00	82.1355	100.0003	-240.5984
DSIPM2D00	82.2511	99.9995	-240.4019
1HA2D00FLG	82.3012	99.9991	-240.3162
MOTT	80.9611	99.9974	-241.5693
3D00FLG2	81.0774	99.9999	-241.0097
1TV2D00FLG	82.3638	99.9996	-240.2080
3D00FLG3	81.1299	99.9995	-240.7642
3D00FLG4	81.4232	100.0067	-239.3797

