



Jefferson Lab Alignment Group

Data Transmittal

TO: J. Benesch, J. Grames

DATE: 15 May 2015

FROM: Chris Gould

Checked:

: L1640

DETAILS:

M:\align\DATA\Inspection\INJ\PEPPO_MAG\150514A

Below are the results from the recent Peppo pole tip gap inspection. A three plane coordinate system was established. The primary plane is the bisector of the top and bottom plane, the secondary plane is the bisector of the upstream and downstream plane, and the tertiary plane is the bisector of the beam left and right plane. In addition to the twelve locations requested, additional points were taken along the beam path and supplied in the attached spreadsheet. An attempt was made to measure the exact coordinates requested, while they are close, even small deviations will affect the gap length since the measurements are to a curved surface. Values are in millimeters. A positive Y is up, and positive X is to the beam left and a positive Z is downstream.

Outside Steel Corners	X	Y	Z	Inside gap Distance				
Bottom DS BL	393.65	-144.55	101.63	DSTopBL-DSBotBL	215.11			
Bottom DS BR	-393.50	-144.42	101.65	USTopBL-USBotBL	215.31			
Bottom US BL	393.67	-144.58	-101.74	DSTopBR-DSBotBR	215.21			
Bottom US BR	-393.48	-144.45	-101.77	USTopBR-USBotBR	215.23			
Top DS BL	393.61	144.55	101.73					
Top DS BR	-393.79	144.42	101.76					
Top US BL	393.62	144.58	-101.62					
Top US BR	-393.77	144.45	-101.64					
Bottom Left Pole	X	Y	Z	Top Left Pole	X	Y	Z	Gap
BLP2	228.68	-44.43	-90.05	TLP6	228.65	43.81	-89.93	88.24
BLP3	228.56	-49.72	-0.03	TLP16	228.62	49.30	-0.08	99.03
BLP5	140.00	-44.73	0.00	TLP26	140.03	43.99	0.06	88.72
Bottom Right Pole				Top Right Pole				
BRP17	-139.98	-44.00	0.05	TRP4	-140.01	43.98	-0.08	87.97
BRP5	-228.64	-49.55	-0.01	TRP11	-228.63	49.43	-0.06	98.98
BRP11	-228.62	-44.05	90.00	TRP20	-228.61	43.91	90.05	87.97

[Peppo Gap Inspection.xlsx](#)