Jefferson Lab Alignment Group

Jefferson Lab

Data Transmittal

TO: Renuka Rajput-Ghoshal		DATE:	18 Nov 2014	
FROM: Jacob Walker	Checked: S	EH	#: B1589	
DETAILS:	Data: Inspection\H	ta: Inspection\HallB\Practice Coil\141118A		

The following data was collected from the survey of the Hall B Solenoid Practice Coil carried out on 11/13/2014. All data is given in millimeters. A right-handed coordinate system was established as follows: +Z is from the center of the two faces, towards the side of the coil with less copper protruding past the outside edge, along the center of a best fit cylinder created from coordinates on the inside laminate-covered copper. +X is from the center of the cylinder, clocked through copper winding designated as the zero point. +Y is perpendicular to the +X direction.

INSPECTION

The distance between the upstream face and downstream face of the practice coil is 384.82mm.

The diameter of the outer cylinder is 999.02mm.

The diameter of the inner cylinder is 846.15mm.

Please see the attached excel sheet for cylinder fit results: Cylinder Fit Report

Please see the attached excel sheet for cylinder point list: Cylinder Point List

ALIGNMENT

YAW

The short copper side center is 0.04mm closer to the mapping sensor rail than the long copper side center.

PITCH

The short copper side center is 0.30mm closer to granite table than the long copper side center.

