



Jefferson Lab Alignment Group

Data Transmittal

TO: D. Kashy				DATE: 09 Sep 2015	
FROM: Kelly Tremblay			Checked:		# : B1670

DETAILS:

data : inspection\hallb\torus12g\150826A

The data below is from the Torus magnet survey of August 25th and 26th. The table shows the as-found fiducial locations based on the hub line established from the survey. The origin is the coil case design zero as shown on drawing B00000-04-01-1101. The fiducials are located on the coil so that their z component is the only offset from the coil case surface. Subtracting or adding the z fiducial offset results in the Z coordinate for the case. The Z locations for the vacuum jackets as detailed in memo B1667, are shown. The Z values are subtracted from each other to show the distance (Delta VJ to Coil Case) between the coil case and the edge of the vacuum jacket. All units are millimeters.

Upstream Hub Locations relative found hub line and referenced to design 0,0									
Fiducial Location					Vac Jacket Zs			Delta VJ to Coil Case	
point	x	y	z	Fid z o/s	Z cryo case	z end 1	z end 2	z end 1	z end 2
B_Hub_us	-148.7	85.0	500.6	7.9	508.6	409.5	409.8	-99.1	-98.8
C_Hub_us	-148.7	-86.6	500.5	7.9	508.4	410.0	411.1	-98.4	-97.3
D_Hub_us	0.0	-172.5	500.5	7.9	508.4				
E_Hub_us	148.2	-86.9	500.9	7.9	508.8	411.7	411.4	-97.1	-97.4
F_Hub_us	148.7	84.8	500.9	7.9	508.8	411.7	410.7	-97.1	-98.1
Av Z Edge Coil Case					508.6				
std dev					0.2				

DownStream stream Hub Locations relative found hub line and referenced to design 0,0									
Fiducial Location					Vac Jacket Zs			Delta VJ to Coil Case	
point	x	y	z	Fid z o/s	Z cryo case	z end 1	z end 2	z end 1	z end 2
A_Hub_ds	0.6	147.5	2479.6	-23.0	2456.6	2538.5	2538.8	81.9	82.2
D_Hub_ds	-0.2	-147.0	2479.2	-22.9	2456.3	2538.7	2538.5	82.4	82.2
E_Hub_ds	126.1	-76.4	2480.1	-23.7	2456.4	2538.5	2537.6	82.1	81.2
F_Hub_ds	128.5	72.4	2481.4	-25.1	2456.3	2539.1	2539.2	82.8	82.9
Av Z Edge Coil Case					2456.4				
std dev					0.2				

distance surf to surface	
average	1947.8
design	1948.1