



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** M. Fowler

**DATE:** 25 Mar 2015

**FROM:** Chris Gould

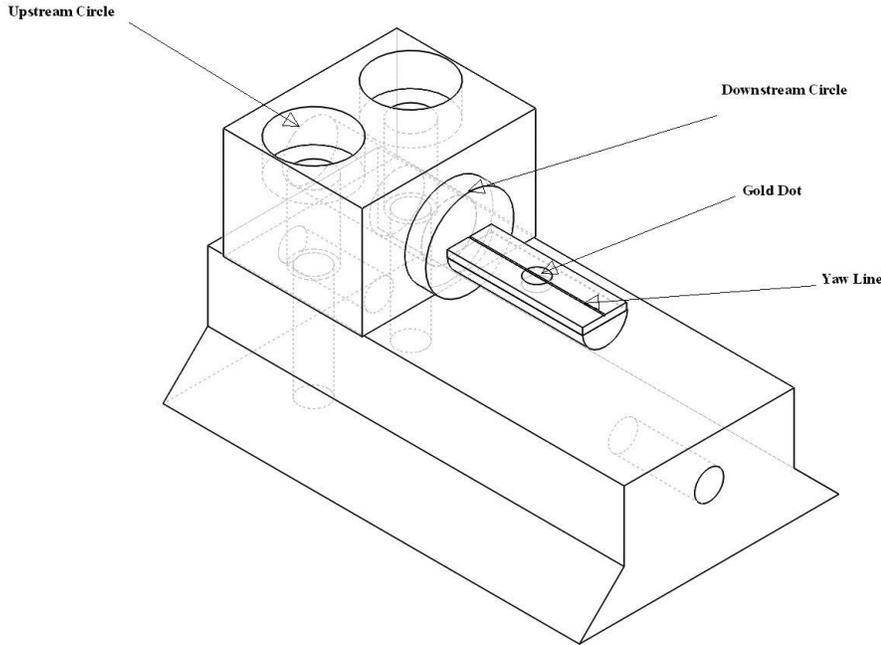
**Checked:**

**# :** C1617

**DETAILS:**

M:\align\DATA\Fiduc\HallC\MAPPER\150324A

Below are the results of the Mapper probe inspection performed in Hall C 3/24/15. The Z axis was established by constructing a line through the upstream and downstream bosses of the mapper tube. The orientation is such that the probe rack is at 12 o'clock. Z = 0 is at Hole 19. Values are in mm and degrees.



YAW				PROBE_TOP_AVG	Y= 187.82mm		
Line	X	Y	Z	Plane	A	B	C
Begin (mm)	0.1	186.84	-1298.98	(mm)	-0.002738	0.999965	-0.007967
End (mm)	-0.49	186.07	-1322.63	Proj. Ang.	Rx from Y	Ry from Z	Rz from X
Direction (mm)	-0.025201	-0.03238	-0.99916	(deg)	359.5435°	198.9679°	90.1569°
Proj. Ang.	Rx from Y	Ry from Z	Rz from X				
(deg)	268.1438°	181.4448°	232.1077°				
Length (mm)	23.67						

<b>UPSTREAM CIRCLE</b>				<b>DOWNSTREAM CIRCLE</b>			
	<b>X</b>	<b>Y</b>	<b>Z</b>		<b>X</b>	<b>Y</b>	<b>Z</b>
Origin (mm)	-0.28	187.19	-1327.43	Origin (mm)	-0.02	187.14	-1308.09
Normal (mm)	-0.017361	-0.00618	-0.99983	Normal (mm)	0.015231	0.004158	0.999875
Proj. Ang. (deg)	Rx from Y 269.6458°	Ry from Z 180.9948°	Rz from X 199.5968°	Proj. Ang. (deg)	Rx from Y 89.7617°	Ry from Z 0.8727°	Rz from X 15.2711°
Radius (mm)	4.14	Diameter (mm)	8.28	Radius (mm)	6.29	Diameter (mm)	12.59
<b>Gold Dot on Probe</b>	For Z pos.						
Point Name	<b>Z</b> (mm)						
Z_POS_AVG	-1298.13						