



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** M. Fowler, S. Lassiter

**DATE:** 15 Oct 2015

**FROM:** Chris Gould

**Checked:**

**# :** C1676

**DETAILS:**

Below are the results of the recent Bender Mapper inspection. The coordinates are relative to the magnet steel. Values are in mm.

	Mapper Holes			Plane Top of Plate A::Bender Plate Top			
	X(mm)	Y(mm)	Z(mm)		A	B	C
Hole1	-159.79	-74.16	-597.28	(mm)	-0.00204	0.999995	0.002421
Hole2	-210.24	-74.25	-603.36	Proj. Ang.	Rx from Y	Ry from Z	Rz from X
Hole3	-260.66	-74.33	-609.40	(deg)	0.1387°	-40.1403°	90.1170°
Hole4	-311.17	-74.42	-615.50				
Hole5	-301.27	-74.72	-486.52	<b>Tube</b>	<b>X(mm)</b>	<b>Y(mm)</b>	<b>Z(mm)</b>
Hole6	-250.81	-74.63	-480.47	US Tube	39.62	-37.77	-765.66
Hole7	-200.41	-74.54	-474.42	DS Tube	-3.01	-35.71	772.99
Hole8	-193.68	-74.90	-320.22	<b>Fids</b>			
Hole9	-244.10	-74.99	-326.31	TBA	288.09	327.88	-565.13
Hole10	-294.52	-75.07	-332.36	TBB	279.11	-294.66	-542.26
Hole11	-345.00	-75.16	-338.48	TBC	212.48	-295.21	-666.87
Hole12	-338.27	-75.52	-184.36	TBD	-124.51	-298.62	-671.28
Hole13	-287.81	-75.43	-178.29	TBE	-132.84	321.71	-676.80
Hole14	-237.40	-75.35	-172.28	TBF	213.73	319.19	-670.10
Hole15	-381.95	-75.97	-36.39	TBG	-221.03	314.72	-540.27
Hole16	-331.48	-75.88	-30.31	TBH	-219.33	-303.40	-534.35
Hole17	-281.03	-75.79	-24.25	TBJ	-280.02	-289.78	550.77
Hole18	-230.65	-75.70	-18.12	TBK	-291.35	352.76	607.24
Hole19	-274.27	-76.15	129.83	TBL	-211.16	352.56	763.56
Hole20	-324.68	-76.24	123.73	TBM	214.30	350.19	763.78
Hole21	-375.12	-76.33	117.63	TBN	203.57	-300.86	709.33
Hole22	-418.64	-76.78	265.57	TBP	-214.25	-301.45	706.64
Hole23	-368.19	-76.69	271.67	TBQ	288.81	355.76	659.51
Hole24	-317.78	-76.60	277.72	TBR	283.32	-314.19	605.35
Hole25	-267.39	-76.51	283.85	TBS	796.54	543.46	233.69
Hole26	-310.93	-76.96	431.78	TBT	796.51	441.08	-208.10
Hole27	-361.33	-77.05	425.69	TBU	796.28	-314.46	-214.84
Hole28	-411.76	-77.13	419.57	TBV	796.40	-313.76	238.90
Hole29	-455.31	-77.58	567.48	TBW	648.02	521.88	-338.33

Hole30	-404.86	-77.49	573.63		TBX	661.64	-525.18	-338.67
Hole31	-354.42	-77.40	579.75		TBY	648.75	638.80	-231.32
Hole32	-304.01	-77.32	585.91		TBZ	311.07	638.51	-218.99