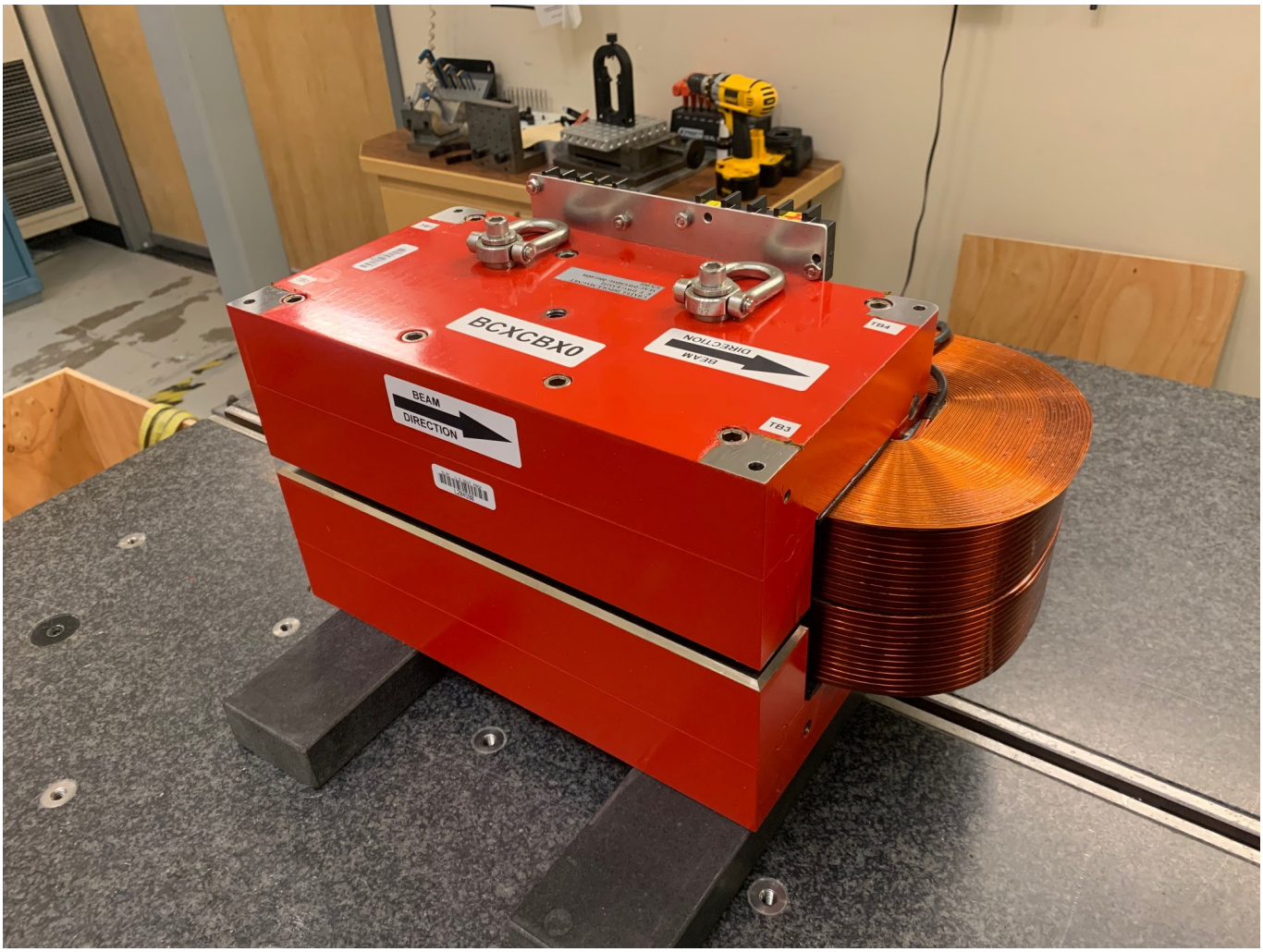
CBXFEL Magnet Fiducialization Report
C-MAGNET DIPOLE ASSEMBLY - 7mm Gap



Inspector : K. Caban
Engineer :T. TAN
Drawing No. : DSG-000014858 R00
Barcode # : 4590
Mfg. S/N : BCXCBX0

Coordinate System Setup

Spatial Alignment

Constructed using the Midplane of Upper (+Y) and Lower (-Y) Pole with the Midplane of the 2 Poles sets Y Zero and the Y+ Direction points towards the Tooling Balls/Terminal Strip.

Planar Alignment

Constructed using the Upstream (-Z) and Downstream (+Z) Ends of the poles. The Midplane from both ends sets Z Zero and +Z points towards TB 3/4 Side.

Coordinate Origins

X Origin - Symetry Plane between side poles planes (planes parallel to the Coils)

Y Origin - Symetry Plane between the Poles (7mm/0.2756" Gap Symetry)

Z Origin - Symmetry plane between Up Stream and Down Stream end surfaces

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Tooling Ball Locations

Tooling Ball	X Coord.	Y Coord.	Z Coord.
TB 1	6.3010	5.3861	-6.6256
TB 2	-0.6187	5.3864	-6.6256
TB 3	-0.6206	5.3866	6.6255
TB 4	6.3005	5.3863	6.6259
TB A	6.3008	4.6986	-6.6256
TB B	-0.6192	4.6989	-6.6252
TB C	-0.6205	4.6991	6.6257
TB D	6.3005	4.6988	6.6253

Tooling Ball Locations (1-4) are 1 inch above Tooling Ball Plane
Tooling Ball Locations (A-D) are 5/16 inch above Tooling Ball Plane
Dimensions in Inch

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Pole Gap Measurements, Flatness & Parallelism

	-Y Pole Fltns	+Y Pole Fltns	Pole Parallel	Avg. Gap	Min. Gap	Max. Gap
POLE DATA	0.0003	0.0003	0.0005	0.2766	0.2762	0.2770

Dimensions in Inch

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