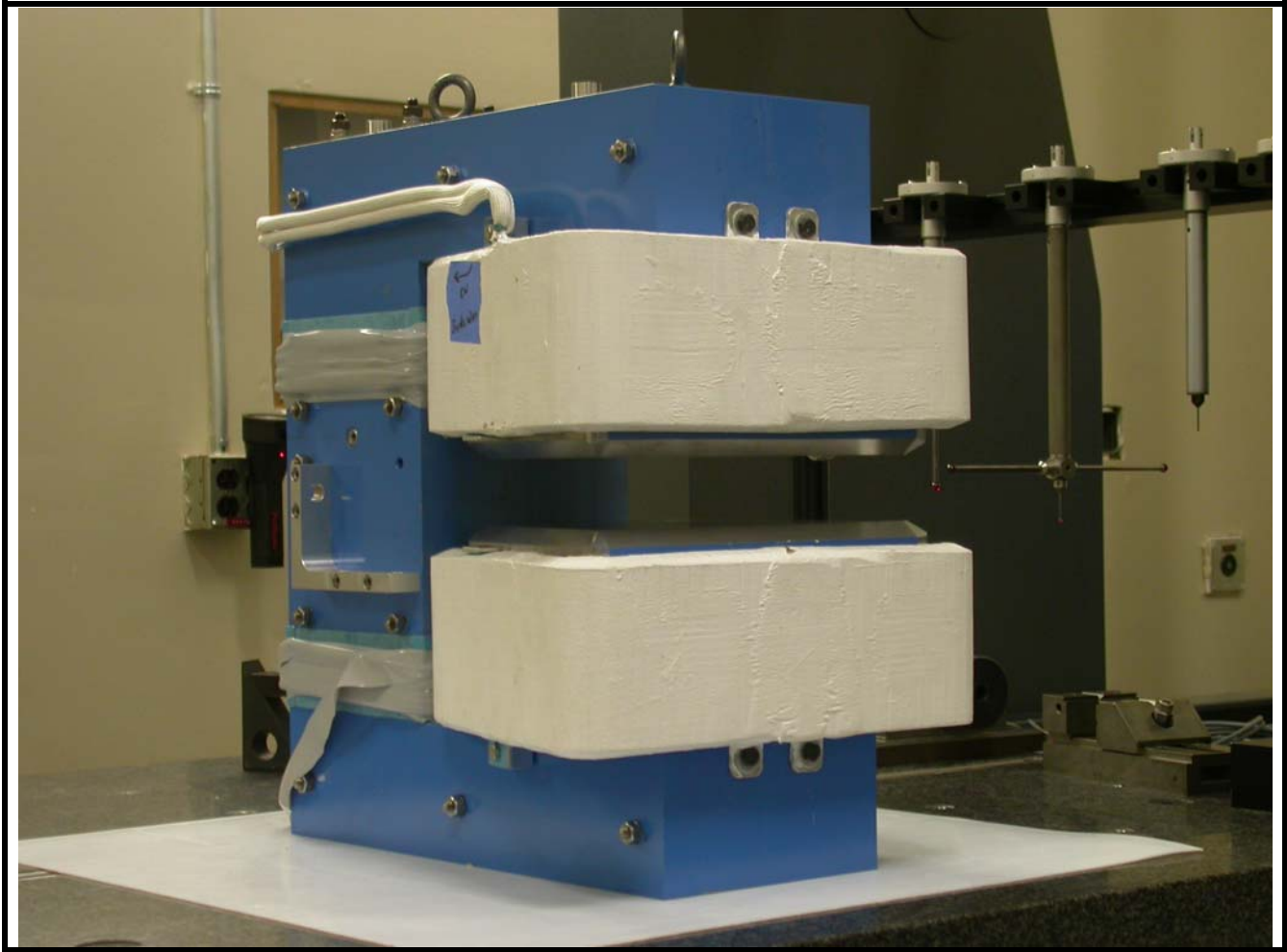


LCLS BXG Magnet FIDUCIALIZATION REPORT



Inspector: Keith Caban
Responsible Engineer: Tom Borden
Date: Wednesday, January 3, 2007
Work Order/Charge No.: 92-4264-2
Serial Number: 002012
URL of Fiducial Report: <\\Web002\www-group\met\Quality\FIDUCIAL REPORTS\LCLS BXG MAGNET\002012.pdf>

Part Set-up – Coordinate System Set-up

Spatial Alignment

- Geometric horizontal symmetry plane of the poles of the magnet.

Planar Alignment

- Mid-Plane of the angled ends (stainless steel) of the Magnet

“Z” Zero

- Mid-Plane of the magnet

“Y” Zero

- Mid-plane of the horizontal pole planes of the magnet

“X” Zero

- Symmetry axis of the angled pole planes on the lower half of the magnet.

Tooling Ball Measurements/Locations

Tooling Ball	FORM	DIAMETER	X	Y	Z
TB A	0.00038	0.49828	0.00668	11.11454	2.46776
TB B	0.00044	0.49839	0.00146	11.11440	-2.46521
TB C	0.00005	0.49996	-9.03836	11.11447	-2.47805
TB D	0.00022	0.49892	-9.05192	11.11476	2.44593

Pole Distances

GAP	GAP DIST (Y)	X location	Z location
1	1.69261	3.15700	-4.64537
2	1.69276	-3.17684	-2.89452
3	1.69284	-0.26888	-1.15293
4	1.69305	3.15675	4.61483
5	1.69325	-3.17699	2.86396
6	1.69303	-0.26907	1.12234