



Jefferson Lab Alignment Group

Data Transmittal

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Checked:

: F1023

DETAILS:

Below are the results from the inspection survey performed on sextupole #07. A right handed coordinate system was established using the average pole tips to define the XY origin, and the bisected planes of the outside steel to define the Z origin and fix the pitch and yaw. A +X is to the beam left, a +Z is downstream, and a +Y is up. The 12 o'clock location is at the top with the remaining locations labeled clockwise looking downstream. The sextupole is labeled correspondingly.

POLE TIP	APEX TO CENTER AXIS		Z DIST FROM CENTER	
	Upst	Dnst	Upst	Dnst
12 o'clock	133.84	133.73	-51.38	50.88
02 "	133.60	133.69	-51.00	51.31
04 "	133.67	133.70	-51.00	51.34
06 "	133.75	133.74	-51.12	51.32
08 "	133.69	133.69	-51.22	51.19
10 "	133.59	133.69	-50.91	51.43

GAP BETWEEN POLE TIPS

	Upst	Dnst
12-02 o'clock	45.70	45.52
02-04	45.45	45.41
04-06	45.45	45.59
06-08	45.61	45.47
08-10	45.59	45.47
10-12	45.39	45.44

FIELD CLAMP	X	Y	DIAMETER
Upst	0.09	-0.47	285.77
Dnst	0.15	-0.12	285.76

Z DIST FROM CENTERLINE TO FIELD CLAMP INSIDE EDGE

	Upst	Dnst
12 o'clock	-129.67	129.01
02 "	-129.68	129.04
04 "	-129.60	129.11
06 "	-129.44	129.27
08 "	-129.47	129.22
10 "	-129.94	129.24