



Jefferson Lab Alignment Group

Data Transmittal

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Checked:

: C1254

DETAILS:

data: prealign\hallc\qweak\091217A & calcs\hallc\qweak\qtor

A survey was undertaken December 17th, 2009 after the QTor frame was assembled and aligned. One bolt hole on each of the machined support arms on the downstream and upstream frames were used to align the frame. The results below indicate the locations of the bolt holes relative to the designed location. A +x indicates the location is to the beam left, +y too high and a +z indicates the location is downstream. Note that coil arm 6 was not surveyed as the coil positioning fixture was placed there before final data could be collected.

coil arm #	dx	dy	dz
Downstream			
coil_2	0.7	3.7	-2.7
coil_3	0.3	3.9	-2.7
coil_4	0.2	4.1	-1.7
coil_5	0.3	4.0	-0.8
coil_7	-0.1	1.9	-1.7
coil_8	0.5	3.4	-2.2
coil_9	0.4	3.5	-2.7
Upstream			
coil_2	0.6	2.9	0.5
coil_3	0.3	2.9	2.5
coil_4	0.2	2.9	2.9
coil_5	0.5	2.7	2.9
coil_7	0.9	2.9	3.2
coil_8	1.0	2.7	1.1
coil_9	0.6	3.0	-1.0