

Jefferson Lab Alignment Group

DATA TRANSMITTAL

TO: Rolf Ent

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FROM: Jim Dahlberg

Checked: # : C715

DETAILS:

Below are the results of the recent survey performed on the HMS vacuum chamber. A coordinate system was established using the top, downstream, and beam right edges of the dipole steel. The ideal location of the vacuum chamber is based on design data of 12.5° outgoing pitch angle relative to the top plane of the dipole, a distance normal to beam of 2027.68 to the top downstream edge of the dipole steel, and a distance of 2649.98 mm for the dipole width. The accuracy of the survey is estimated to be approximately ± 3 mm.

	X	Y
Flange upstream of the hut wall:	8.9 mm beam left	28.6 mm low
Downstream flange inside hut:	4.7 mm beam left	28.4 mm low