



Jefferson Lab Alignment Group

Data Transmittal

TO: A. Freyberger, K. Welch , Joe Grames

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FROM: Steve Hardisty

Checked: JMW

: A1583

DETAILS:

Data: Step 2b\HALLA\141020A

Below are the results from the survey carried out on the Hall A dump vacuum vessel assembly. The delta's (in millimeters), are offsets from the ideal machine coordinate also listed. A +Z is downstream, +X is to the beam left, and a +Y above. A + yaw angle is counter clockwise looking from above, a + pitch is cw looking from the beam right, and a +roll angle is cw looking downstream. All angles are in degrees.

Note: The vacuum vessel was clamped to the existing skewed flange on the downstream beam pipe in Hall A before it was welded in place. This resulted in a large yaw angle in the vessel which could not be straightened out. As a result, the vessel was shifted to a location where the viewer was to the beam right from ideal 2 mm (tolerance given), and the downstream 3.25" aperture ended up to the beam left 7 mm.

COMPONENT	MECHINE			DELTA'S					
	Z	X	Y	Z	X	Y	YAW	PITCH	ROLL
ITV1H09	-415.4079	-15.7881	100.022	0.00	-2.14	0.55	0.484	-0.023	0.739
PUCK	-416.1116	-15.2481	100.022	1.60	5.39	0.16	0.484	-0.023	0.739
APERTURE	-416.2650	-15.1304	100.022	1.60	7.03	0.08	0.484	-0.023	0.739