Jefferson Lab Alignment Group

Data Transmittal

TO: J. Grames		**DATE:** 31 Oct 2013
FROM: Chris Gould	**Checked:**	**# :** L1525

DETAILS: M:\align\DATA\Step2B\INJ\131017A

The 1D line survey results are shown below. A coordinate system was established on the upstream and downstream flanges such that X and Y equals zero. A positive X is to the beam left, a positive Y is up and a positive Z is downstream. In addition to the local coordinate system, CEBAF coordinates are provided. Yaw and pitch angles were calculated from the straight ahead beam to the constructed Z axis. A negative yaw angle is rotated counter clockwise about the Y axis when viewed from above. A positive pitch angle is rotated clockwise about the X axis when viewed from the right.

	LOCAL COORD SYSTEM				MECH		
NAME	**X**	**Y**	**Z**		**X**	**Y**	**Z**
US_FLANGE	0.00	0.00	0.00		80.53634	100.00260	-252.55129
ICB1D00_US	-0.35	-0.09	648.00		80.21755	100.00110	-251.98713
ICB1D00_DS	-0.27	-0.05	711.00		80.18665	100.00101	-251.93223
IHA1D00_US	-0.13	-0.05	820.00		80.13320	100.00076	-251.83723
DS_FLANGE	0.00	0.00	1066.40		80.01221	100.00028	-251.62258

	PITCH	YAW
Angle from 80.600 beam line to 1D line	0.15	-29.44