Jefferson Lab Alignment Group

Data Transmittal

TO: T. Whitlatch		**DATE:** 09/04/2018
FROM: Chris Gould	**Checked:**	**# :** D1884

DETAILS: M:\align\DATA\Step2B\HallD\DIRC\180820A, \High Gran Det\180730A, \Target\180815A, \180815A

Below are the Hall D beam line survey results for the Fall 2018 run. Machine coordinates are given along with offsets from ideal in millimeters. A +X is to the beam left, a +Y is above, and a +Z is downstream from ideal. A –Yaw angle (in degrees), is clockwise looking from above, a + pitch is ccw looking from the beam right side, and a – roll is ccw looking from upstream.

The DIRC flanges were inspected to determine orientations relative to the Bar Box. These angles are NOT relative to the machine coordinates.

	Z	X	Y		rY (Yaw)	rX (Pitch)	rZ (Roll)
Pair Spec.	386.76733	80.59990	104.69956		0.0067	-0.0108	-0.0020
Left High Gran.	389.69421	80.83852	104.69998		4.6729	0.0220	0.0096
Right High Gran.	389.69475	80.36141	104.70001		-4.6895	0.0047	0.0141
Left Low Gran.	390.18349	80.87509	104.70087		4.7813	-0.0037	-0.0906
Right Low Gran.	390.18350	80.32517	104.70267		-4.6929	-0.0958	0.0982
Target	398.79009	80.59997	104.69996		0.0043	-0.0020	-0.0129
LDIRC1	403.98130	80.59973	102.31995		-0.0731	-0.0639	0.0266
LDIRC2	403.98183	80.59646	102.83475		-0.0868	-0.1452	0.0246
HDFCAL	404.38753	80.60601	104.70031		-0.0484	0.0264	-0.0186
TAC US Face	414.40680	80.59981	104.70033		0.1168	0.1065	
DIRC Flange 1	403.94455	77.58095	102.31858		-0.0221	0.0498	-0.0030
DIRC Flange 2	403.94436	77.57768	102.83349		0.0503	0.0202	0.0340