



Jefferson Lab Alignment Group

Data Transmittal

TO: D. Kashy

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Checked: LEB

: A1969

DETAILS:

data: fiduc\halla\dump\180820a

The large beam pipe after the pivot towards the dump in Hall A was surveyed in September, 2018. The results below show the center of the four main flanges and also the bolt circles in the front flange. The coordinate system is based on the upstream flange and the mid upstream flange (y/z axis) and the center of the upstream flange. The bottom access flanges / plane were used to control roll.

The plane of the bottom access flange is given for information. Units are millimeters.

Main Flanges				
Circle	x	y	z	radius
Upstream Flange	0.000	0.000	0.000	583.943
Mid - US Flange	0.000	0.000	2552.169	392.824
Mid - DS Flange	0.235	0.042	2618.074	374.919
Downstream Flange	5.050	-0.247	4971.817	203.109
top bolts circles on upstream face				
BR_bolt	-74.248	562.533	0.798	5.414
BL_bolt	74.233	562.891	0.660	5.537
Center_bolt	-0.057	567.861	0.736	5.482
bottom bolt circles on upstream face				
BR_bolt	-73.039	-563.562	-0.662	5.373
BL_bolt	75.225	-563.593	-0.801	5.474
Center_bolt	0.967	-568.509	-0.738	5.424
Access Flanges for instrumentation				
US	-1.936	-353.126	1502.388	101.576
DS	-0.728	-351.573	2390.768	101.558

Access Instrumentation Plane data (unit vector)					
	A	B	C	D	angle
Plane	0.00000	-1.00000	0.00166	-355.5810	179.9050