



Jefferson Lab Alignment Group

Data Transmittal

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DATE: 11 Mar 2019

FROM: Tom Singleton

Checked:

: M1913

DETAILS:

M/align/DATA/Inspection/UITF/190308A
M/align/DATA/Fiduc/UITF/180712A

These are the results of the as-found injector line survey carried out in the UITF on March 08, 2019. Coordinates provided are in both the UITF Machine Coordinates and in a Beam Following System. The BFS is based on the 15 degree Injector Line where a +X is to the beam left and a +Y is up. The cathode position was calculated by adding the X and Y offsets from the original fiducial data obtained 7/12/18 to the recent top flange measurements.

POINT	UITF Machine Coordinates			Beam Following System	
	X (M)	Y (M)	Z (M)	dX bfs(mm)	dY bfs(mm)
Calculated Cathode	10.6883	21.0662	31.4046	7.5	-0.6
DS_INJ_FLNG	10.6497	21.0658	31.5685	12.6	-1.0
BPM_1	10.5835	21.0672	31.8157	12.6	0.3
US Face_SOLENOID	10.5328	21.0668	31.9903	8.9	0.0
DS Face_SOLENOID	10.5119	21.0671	32.0631	7.6	0.3
BPM_2	10.4393	21.0680	32.3186	3.6	1.2
TOP_ITVK201_FLNG	10.3611		32.5963	-0.1	
LaserHutch_FLNG	10.2337	21.0682	33.0648	-1.9	1.4