



Jefferson Lab Alignment Group

Data Transmittal

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Checked:

: U1949

DETAILS:

M:\align\DATA\Step2B\UITF\191101A

On November 1st, 2019 R28-3 was aligned to the previous as-found electrode position not to the design ideal. Beam following results are given relative to both the design ideal and to the as-found or “new ideal” position. In the BFS, a positive X is beam left, a positive Y is up and a positive Z is downstream.

T-Electrode As-Set			
	X	Y	Z
UITF Machine Coordinates (M)	10.67326	21.06645	31.46629
	rX (Pitch)	rY (Yaw)	rZ (Roll)
ROTATIONS	-0.1971	-13.9069	0.0844
	X	Y	
Beam Following to the Design Ideal 15deg Line (mm)	8.95	-0.35	
	rX (Pitch)	rY (Yaw)	rZ (Roll)
ROTATIONS	-0.1752	1.0931	0.0820

Beam following to New Ideal (as-found)			
	X	Y	Z
Beam Following (mm)	-0.09	0.53	0.22
	rX (Pitch)	rY (Yaw)	rZ (Roll)
ROTATIONS	-0.1164	0.0430	0.0547

The following BPM locations are relative to the As-Set position of R28-3 and the design ideal (15 degree).

BFS RELATIVE TO AS-SET (mm)		
	X	Y
BPM1	-2.81	-1.68
BMP2	-20.86	-1.24

BFS RELATIVE TO DESIGN IDEAL (mm)		
	X	Y
BPM1	12.47	-1.01
BMP2	4.20	0.98