



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** S. Stepanyan, B. Miller, Y. Gotra

**DATE:** 12 Nov 2021

**FROM:** Kelly Tremblay

**Checked:**

**# :** B2018

**DETAILS:**

data: step2b\hallb\target\saclay\21109a fid: fiduc\hallb\targets\saclay\210726a

The Saclay target was aligned on November 9<sup>th</sup>, 2021. The results are below.

The ideal and found coordinates are based on the CEBAF coordinate system. The Beam Following coordinates are the amount offset from the design (ideal) location, where a +X is beam left, a -Y is lower and -Z is upstream from the ideal, looking downstream. Units are millimeters. The delta angles are the difference from design shown in degrees.

Ideal [m]								
x	y	z						
80.60000	103.35526	-398.82153						
Found [m]			BFS [mm]			Delta Angles [deg]		
x	y	z	x	y	z	pitch	yaw	roll
-80.60030	103.35521	-398.79101	0.30	-0.05	-30.52	0.0109°	0.0278°	-0.0043

Based on the July 26<sup>th</sup>, 2021 fiducialization, the target cell was used as the x/y origin (0.0,0.0) and target cell frame was used for the z location (85.98 mm upstream) for the setting of the final fiducials.

Target	x	y	z
Cell	0.00	0.00	-82.12
Cell Plane	---	---	-85.98
Downstream Flange	-0.08	-0.06	-1311.44
Upstream Flange	0.00	0.00	-4082.13