



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** T. Whitlatch

**DATE:** 07/01/2021

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**Checked:**

**# :** D1997

**DETAILS:**

M:\align\DATA\Step2B\HallID\FTOF\210505A

The data below shows the as-set positions of the FCAL and FTOF detectors following the second adjustment.

During previous FTOF survey, large distortions were observed from the initial fiducialization. The original centerline was defined while the FTOF assembly was orientated horizontally. This is likely the cause of the observed distortions. The centerline is now defined by the as-set vertical orientation and is reflected in the following results.

Also included are the target positions fixed on the upstream face (Benny's Pts.) and the downstream FCAL aperture. Results are in the CEBAF mechanical coordinate system.

As-FND Mech	Meters			Degrees		
	X	Y	Z	RX(Pitch)	RY(YAW)	RZ(ROLL)
FTOF	80.60085	104.69718	404.18271	-0.03130	-0.07630	-0.15030
T02	81.42097	104.84768	404.15668			
T03	79.79423	104.85261	404.15451			
T04	80.60326	105.54453	404.15521			
T05	81.41388	105.54510	404.15629			
T06	79.78919	105.54956	404.15412			
T08	81.41793	104.54228	404.15684			
T09	79.79052	104.54644	404.15468			
T10	80.60680	103.84599	404.15615			
T11	81.41949	103.84400	404.15723			
T12	79.79360	103.84954	404.15506			
FCAL	80.60189	104.70022	404.38222	-0.03080	-0.02150	-0.01760
DS FCAL Aperture	80.60409	104.69921	405.21598			