



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** T. Whitlatch

**DATE:** 07/01/2021

**FROM:** Chris Gould

**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)
<b>FTOF</b>	80.60085	104.69718	404.18271	-0.03130	-0.07630	-0.15030
<b>T02</b>	81.42097	104.84768	404.15668			
<b>T03</b>	79.79423	104.85261	404.15451			
<b>T04</b>	80.60326	105.54453	404.15521			
<b>T05</b>	81.41388	105.54510	404.15629			
<b>T06</b>	79.78919	105.54956	404.15412			
<b>T08</b>	81.41793	104.54228	404.15684			
<b>T09</b>	79.79052	104.54644	404.15468			
<b>T10</b>	80.60680	103.84599	404.15615			
<b>T11</b>	81.41949	103.84400	404.15723			
<b>T12</b>	79.79360	103.84954	404.15506			
<b>FCAL</b>	80.60189	104.70022	404.38222	-0.03080	-0.02150	-0.01760
<b>DS FCAL Aperture</b>	80.60409	104.69921	405.21598			