

## Jefferson Lab Alignment Group

## **Data Transmittal**

**TO:** B. Metzger **DATE:** 13 Nov 2015

FROM: Chris Gould Checked: (kjt) #: C1683

**DETAILS:** 

M:\align\DATA\STEP1\HallC\Pivot Flange\151112A

Below are the results of the Hall C pivot flange alignment. The results show the flange location before and after the flange was tack welded to the target post. Six of the twelve  $\emptyset$  0.81 thru holes on a 23.00 BCD were also measured. The coordinate system is relative to the Hall C Target with an ideal CEBAF elevation of 100 meters. A positive X is to the beam left, a positive Y is up and a positive Z is downstream. Values are in inches and degrees.

	Ideals				Measured				Deltas			
FINALS	Х	Υ	Z	2	X	Υ	Z		х	Υ	Z	
PVTFLGPA	9.750	-50.317	0.000		9.758	-50.335	0.009		0.008	-0.018	0.009	
PVTFLGPB	-4.875	-50.317	8.444		-4.870	-50.327	8.456		0.005	-0.010	0.012	
PVTFLGPC	-4.875	-50.317	-8.444		-4.876	-50.337	-8.437		-0.001	-0.020	0.007	
BH CIRCLE	0.000	-50.630	0.000		0.007	-50.653	0.008		0.007	-0.023	0.008	
FLANGE PRE	WELD											
PITCH	ROLL	DIST. TO T	ARGET CL		IDEAL DIST.	DELTA						
0.0066°	90.0235°	50.	625		50.630	-0.005						
PITCH DIST	ROLL DIST											
0.003	0.011											
FLANGE POS	T WELD											
PITCH	ROLL	ROLL DIST. TO TARGET CL			IDEAL DIST.	DELTA						
-0.0240°	89.9999°	50.653			50.630	0.023						
PITCH DIST	ROLL DIST											
0.011	0.000											
THRU HOLES	23.00 BCD											
	Х	Υ	Z		MEAS. RADIUS	IDEAL RADIUS	DELTA					
BH1	-2.967	-50.034	11.123		11.512	11.500	0.012					
BH2	8.144	-50.047	8.143		11.517	11.500	0.017					
ВН3	11.122	-50.048	-2.970		11.512	11.500	0.012					
BH4	2.985	-50.044	-11.105		11.499	11.500	-0.001					
BH5	-8.131	-50.052	-8.126		11.495	11.500	-0.005					
BH6	-11.107	-50.047	2.986		11.501	11.500	0.001					