Jefferson Lab Alignment Group

Data Transmittal

TO: M. Fowler, S. Lassiter | **DATE:** 24 Mar 2015

FROM: Chris Gould | **Checked:** | **# :** C1615

DETAILS:

M:\align\DATA\Fiduc\HallC\SHMS\Q1\150323A

Attached are the results of the Hall C Mapper location survey carried out on 03/24/2015.

The Z axis was established by constructing a line through the upstream and downstream bolt circles of Q1. The beam cut out was used to control roll. The origin was constructed at the pierce point of the Z axis and the mid plane of the upstream and downstream faces. Values are in millimeters, angles are clockwise looking downstream.

	MEASURED					IDEAL					DELTA			
FLANGE BOLT CIRCLE	**X**	**Y**	**Z**	ANGLE		**X**	**Y**	**Z**	ANGLE		**X**	**Y**	**Z**	
US	0.00	0.00	-1214.27											
DS	0.00	0.00	1214.27											
CUTOUT Begin	-383.42	0.67	-1209.87											
CUTOUTEnd	-416.31	-0.67	-957.43											
US BORE	-0.79	-0.94	1173.23											
DS BORE	-0.69	-0.44	1174.90											
MAPPER FIDS														
USMAP_TBA	-4.00	179.46	-1477.68			-3.11	180.26	-1479.54			-0.89	-0.79	1.86	
USMAP_TBB	-179.88	-12.89	-1475.00			-180.32	-11.61	-1476.81			0.44	-1.27	1.81	
USMAP_TBJ	178.88	-16.31	-1477.90			179.77	-15.60	-1479.76			-0.89	-0.71	1.86	
DSMAP_TBC	1.33	181.17	1485.40			1.93	181.72	1483.72			-0.59	-0.55	1.68	
DSMAP_TBD	-179.43	-5.77	1469.00			-180.09	-4.75	1467.24			0.66	-1.02	1.76	
DSMAP_TBE	-127.55	-127.57	1483.46			-128.40	-126.70	1481.70			0.85	-0.87	1.75	
DSMAP_TBF	144.39	-108.06	1482.50			144.96	-107.53	1480.81			-0.57	-0.53	1.69	
DSMAP_TBG	153.86	92.73	1480.72			154.46	93.28	1479.02			-0.60	-0.56	1.70	
MAPPER BOLT CIRCLE														
USMAP_H1	-148.09	28.06	-1508.29	79.27		-147.19	29.02	-1504.42	78.85		-0.90	-0.96	-3.87	0.42
USMAP_H9	-84.53	123.49	-1507.89	34.39		-83.56	124.44	-1504.42	33.88		-0.98	-0.95	-3.47	0.51
USMAP_H17	28.06	146.15	-1507.48	349.13		29.05	147.01	-1504.42	348.82		-0.98	-0.86	-3.06	0.31
USMAP_H25	123.64	82.56	-1507.68	303.73		124.60	83.35	-1504.42	303.78		-0.96	-0.79	-3.26	-0.05
USMAP_H33	146.25	-30.11	-1507.99	258.37		147.12	-29.26	-1504.42	258.75		-0.87	-0.85	-3.57	-0.38
USMAP_H60	-143.08	-45.08	-1508.53	107.49		-143.62	-43.88	-1504.42	106.99		0.54	-1.20	-4.11	0.50
DS PUNCH														
DSBOTTP1	-0.58	-632.07	1238.09											
DSBOTTP2	-0.52	-635.67	1238.09											
DSBOTTP3	-0.53	-638.72	1238.00											
DSTOPP1	-0.58	634.41	1237.14											
DSTOPP2	-0.33	636.40	1237.19											
DSTOPP3	-0.56	639.40	1236.95											

US PUNCH														
UTOPP1	-0.12	617.74	-1237.61											
UTOPP2	-0.37	617.37	-1237.60											
UTOPP3	-0.84	614.81	-1237.63											
USBOTTP1	1.71	-639.16	-1242.00											
USBOTTP2	1.81	-635.89	-1241.99											
USBOTTP3	2.15	-631.73	-1242.02											
USBL1	413.28	-0.89	-1239.32											
USBL2	416.19	-0.99	-1239.33											
USBL3	418.64	-0.95	-1239.33											
USBRP1	-298.71	-1.25	-1239.64											
USBRP2	-296.32	-1.26	-1239.70											
USBRP3	-294.09	-1.36	-1239.71											