



Jefferson Lab Alignment Group

Data Transmittal

TO: S. Yang, C. Butler

DATE: 29 Jan 2020

FROM: Chris Gould

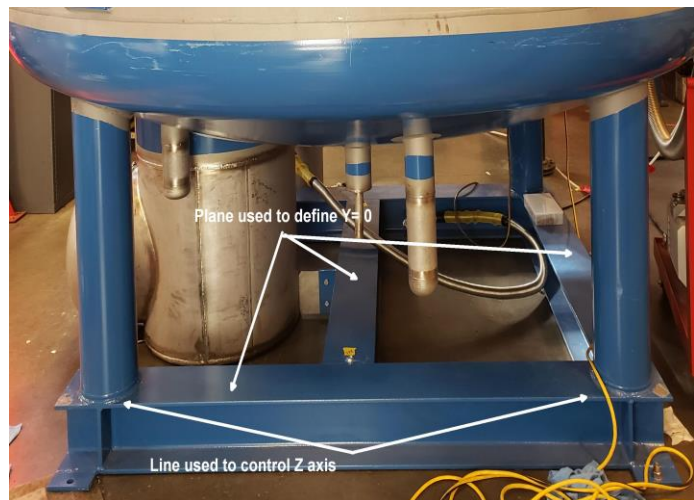
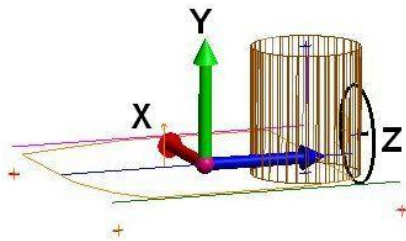
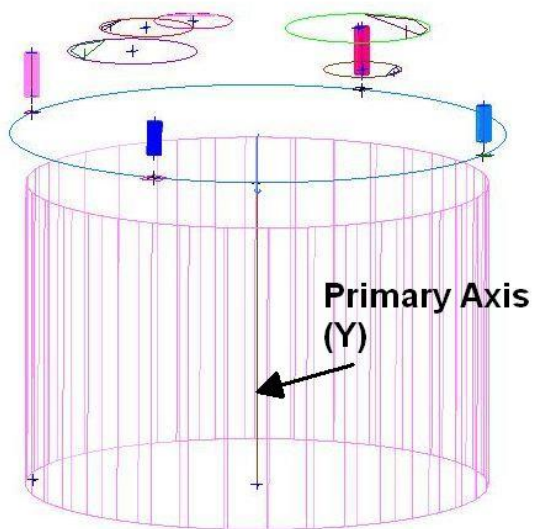
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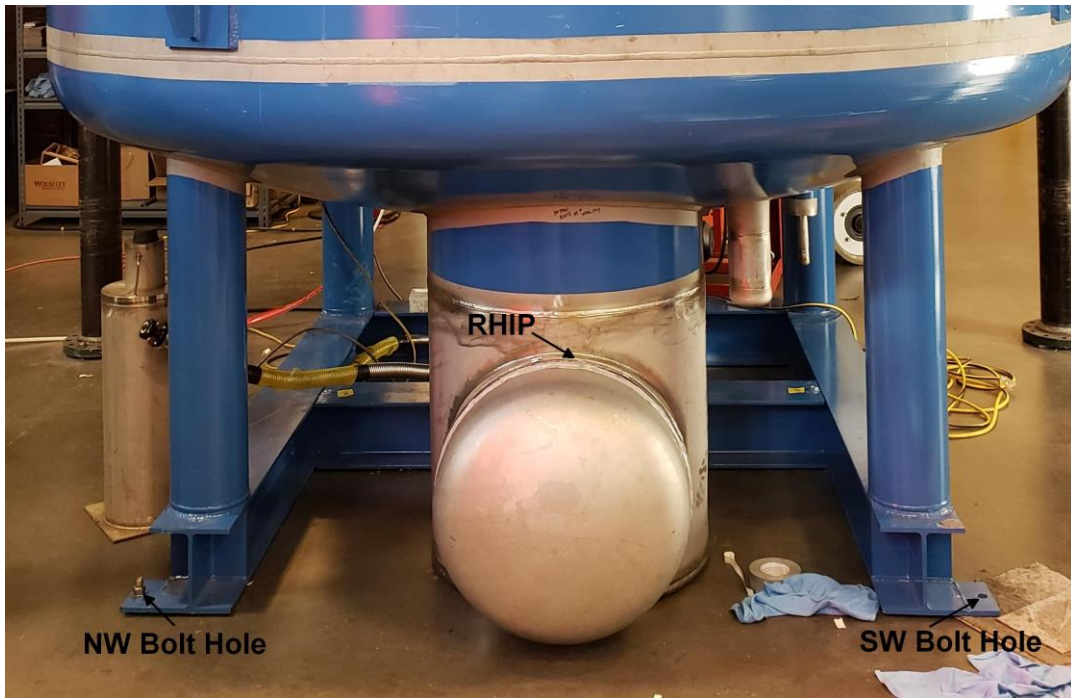
: M1967

DETAILS:

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Below are the results of the Inspection and Fiducialization of the new 2K Cold Box. The coordinate system was established by using the large blue vacuum vessel to define the primary axis (Y). The origin is defined by intersecting the primary axis with a plane measured on the top surface of the I-beam support structure. The clocking orientation (Z Direction) is defined by bisecting two lines measured on the outside (north and south side) of the support structure. A positive Z points to the West, a positive X points South and a positive Y is up. Values are in inches and degrees.



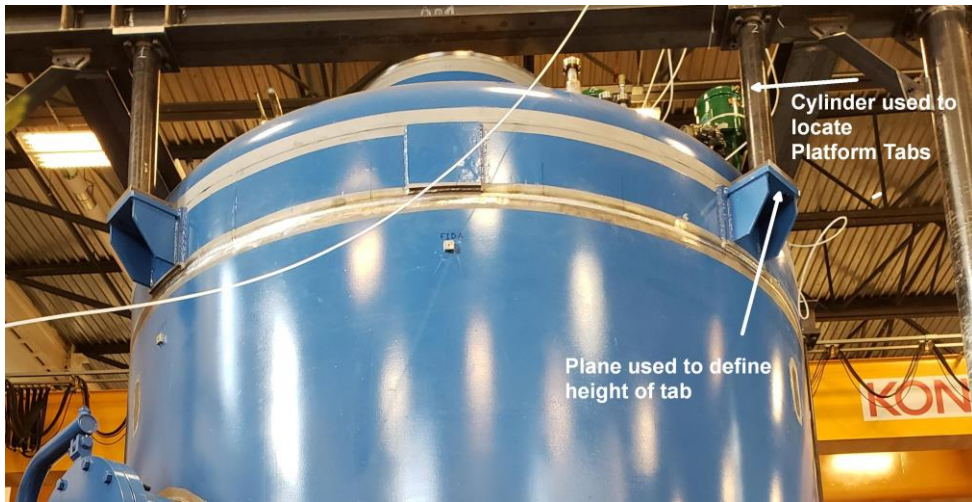


	X	Y	Z
Return Header Interface Port	1.430	5.094	44.491

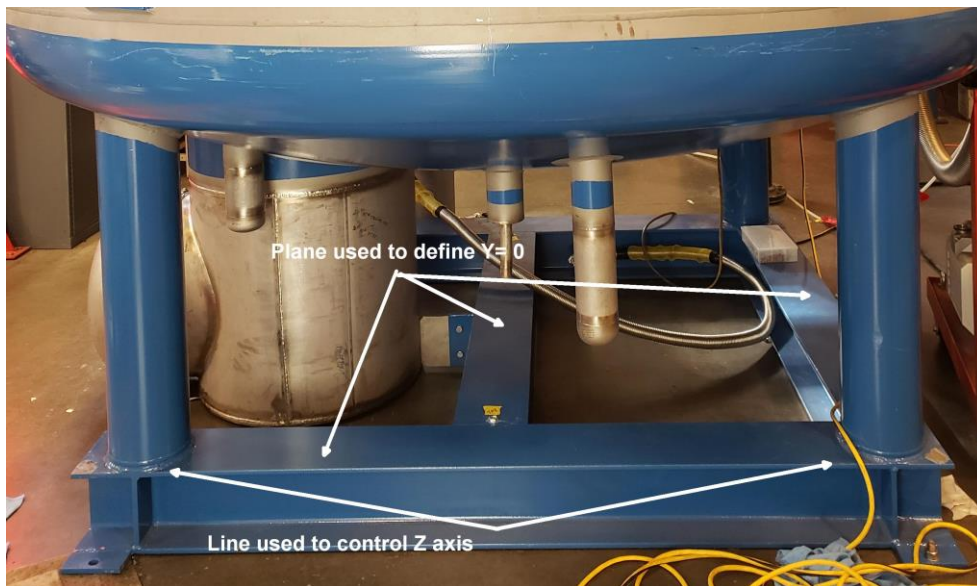
	X	Y	Z
BOLT HOLE FLOOR			
NE_BOLT_HOLE	-41.937	-7.736	-40.180
NW_BOLT_HOLE	-42.123	-7.531	41.626
SE_BOLT_HOLE	42.228	-8.083	-39.879
SW_BOLT_HOLE	42.129	-7.551	41.621

Below are the flanges located on the top of the 2K Cold Box. Refer to the "Port Index" on page 2 of drawing 71220-1129 for naming convention.

TOP FLANGES	X	Y	Z	PITCH (Rx)	ROLL (Ry)
CC1	0.349	194.018	28.990	-0.1326	0.0121
CC2	-4.609	192.963	-37.987	0.0661	-0.0457
CC3	26.841	192.542	-22.744	0.1889	0.0482
CC4	45.107	189.569	-2.469	-0.0245	0.0632
CC5	-37.532	190.560	16.783	-0.0518	0.0135



PLATFORM TABS	X	Y	Z
TOP_NE	-48.176	166.807	-47.309
TOP_NW	-47.555	166.723	48.023
TOP_SE	47.248	166.785	-48.186
TOP_SW	47.947	166.721	47.421
CL BOLT HOLE CIRCLE	-0.065	166.759	0.006



	PITCH (Rx)	ROLL (Ry)
TOP OF IBEAM PLANE	-0.2454	-0.0684