



Jefferson Lab Alignment Group

Data Transmittal

TO: J. Fisher

DATE: 16 Nov 2022

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Checked: kjt

: L2059

DETAILS:

M:\align\DATA\SRFCryo\C100_R\C100_10R\FIDUCIAL\221108A

The coordinate system for x/y is based on a survey of C100_10R alignment ears/piers completed on 10/04/2022. The Z origin of the coordinate system is at an ideal distance from the US and DS quads in the CEBAF warm region (see *cebafe_c100 warm reg.pdf* and *c100_cebafe warm reg.pdf*). As such a +X is to the beam left, a +Z is downstream of the ideal position, and +Y is up.

Component	X[mm]	Y[mm]	Z[mm]
DS Small Flange	-0.27	0.05	4447.29
US Small Flange	0.02	0.18	-4282.43
FIDA	-463.58	275.68	-3833.81
FIDB	-7.34	568.78	-3800.47
FIDC	447.88	299.32	-3919.37
FIDD	420.66	96.61	-3515.94
FIDE	-1.02	485.27	-3492.12
FIDF	-426.82	7.27	-3524.33
FIDG	-379.19	253.85	-2352.74
FIDH	-375.42	260.69	-1584.99
FIDJ	8.74	482.39	-42.35
FIDK	401.15	195.24	98.77
FIDL	-352.37	295.32	1624.77
FIDM	-383.29	243.62	2876.74
FIDN	-427.46	13.14	3770.91
FIDP	12.52	479.66	3779.27
FIDR	426.72	89.82	3749.60
FIDS	468.76	244.21	4141.84
FIDT	2.70	565.19	4019.88
FIDV	-461.40	276.51	4004.42