

Jefferson Lab Alignment Group

Data Transmittal

TO: Jay Benesch DATE: 02 May 2006

FROM: Chris Curtis Checked: #: L1056

DETAILS:

data: m:\align\data\step2a\necr\060117a
data: m:\align\data\step2a\swcr\060125a
data: m:\align\data\step2a\earc\060117a
data: m:\align\data\step2a\warc\060117a

Below are the results of the location survey of harps in the accelerator arc and extractor regions. Since all of these components were measured in a local system (i.e. relative to the center of the nearest quad, listed bold) only a DS is given (distance along beamline), together with a derived Z coordinate where the beam is parallel to the linacs. The ideal coordinates of the quads are shown in meters in the machine system with the center of the accelerator at Z=0, X= 0 and Y=100. The DS is given in millimeters, with a positive DS being downstream. Accuracy is estimated at +/- 1mm.

Component	Z (m)	X (m)	Y (m)	DS (mm)	DX (mm)	DY (mm)
QB1E03 ctr	184.6638	80.6000	102.0000	` ,	, ,	,
HA1E03 ctr	185.5717			907.9	**	**
QB2E03 ctr	-184.6638	-80.6000	102.0000			
HA2E03 ctr	-184.1001			-563.7	**	**
QB1A21 ctr	281.8138	0.0000	102.0000			
HA1A21 ctr				1032.6	**	**
QC2A21 ctr	-281.8138	0.0000	102.0000			
HA2C21 ctr				1033.2	**	**