

Jefferson Lab Alignment Group

DATA TRANSMITTAL

TO: Chen Yan

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Checked: # 558

DETAILS:

Below are the results from the recent survey performed on the super harps located in line C at 3C12. Super harp SH01 (upstream) was replaced with SH11, and SH02 (downstream) was replaced with SH12. The values represent the current location of the wire/harp relative to the previous location of the wire/harp when the encoder value is set. The values below are the result of actual survey measurements. Based on the accumulative error from fiducialization and the change out survey, the accuracy of the results is estimated at ± 0.10 mm. It should be noted that the continuity of SH12 (according to Chen) was found to be faulty prior to installation. This raises the question as to whether the fork was attached properly during the fiducialization. Based on this unknown, the information below cannot be guaranteed to be accurate.

SH11	LOCATION (Difference from previous)	ENCODER
Horizontal wire	Low 0.18 mm	A23F
1 st vertical wire (drive retracted)	Beam right 0.05 mm	5B91
2 nd vertical wire (drive extended)	Beam right 0.05 mm	D5A7

SH12	LOCATION	ENCODER
Horizontal wire	Low 0.12 mm	882B
1 st vertical wire (drive retracted)	Beam left 0.19 mm	5A16
2 nd vertical wire (drive extended)	Beam left 0.19 mm	CB47