



Jefferson Lab Alignment Group

Data Transmittal

TO: T. Whitlatch, H. Egiyan, V. Kakoyan

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FROM: J. Dahlberg

Checked:

: D1574

DETAILS:

Data: Inspection\HallD\140717A

Attached are the results from recent survey carried out on the HD tagger area goniometer calibration. To assist with the analysis, all the measured coordinates are included taken on the upstream face of the frame and on the support ring. The measurements on the upstream face are roughly near the corners, not in the bolt holes. The measurements on the support ring are in the bolt holes and projected to the upstream face of the ring. A right handed coordinate system was established from the bottom support plate and offset to ideal beam center based on drawing #D00000-00-02-1003. A +X is to the beam left, A +Y is up, and a +Z is downstream. Values are in millimeters and degrees. The pitch and yaw measurements on the frame and the support ring are based on the upstream faces. The roll on the frame is based on the top surface, and the roll on the support ring is based on the bolt hole pattern.

[Goniometer](#)