



Jefferson Lab Alignment Group

Data Transmittal

TO: T. Whitlatch, A. Somov

DATE: 23 Mar 2015

FROM: Jacob Walker

Checked: JD

: D1614

DETAILS:

DATA: M:\align\DATA\Step2B\HallD\150303A

Below are the final locations of the hall D low granularity detectors. All data is given in millimeters and degrees. The roll, and pitch of the individual detector paddles were set using an electronic level. The individual detector paddles were also spaced evenly using a tape measure. The yaw angle of the detector sets were calculated using a coordinate found at the upstream center of each detector paddle and fitting a line through them. All coordinates are relative to the center of the pair spectrometer magnet. A +X is left of pair spectrometer center, a +Y is above, and a +Z is downstream. A +Yaw is counter clockwise looking from above.

Name	X	Y	Z	Yaw
Left Detector Upst bottom left Corner Point	272.3	-31.3	3389.0	
Left Detector Set Yaw Angle				4.612°
Right Detector Upst bottom right Corner Point	-272.4	-31.8	3388.8	
Right Detector Set Yaw Angle				- 4.696°