Jefferson Lab Alignment Group

Data Transmittal

TO: R. Miller		**DATE:** 22 Jan 2010
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DETAILS:

Data: Inspection\HallB\minitorus\091221a, 091221b

Attached is a data sheet for the mini torus inspection carried out on Dec 21, 2009. The first survey was with the torus supported at the upstream and downstream ends. The second survey was with the torus on the transport cart supported at the mid-frame and downstream end. When the torus was supported on the cart for the second survey, the sleeve at the downstream end which was used to define the first coordinate system had distorted some. Therefore, the second set of data used to determine movements has the survey point TPD fixed instead of the downstream sleeve. This survey point is next to the sleeve on a rigid surface. A second set of data used to determine movements was calculated by holding all the points from the center support to the downstream end fixed except for the downstream sleeve and the temporary points TPB and TPC on the outside strap of the top coil. A right handed coordinate system (in millimeters) was established for each set of data with a +X to the beam left, a +Z downstream, and a +Y up.

Data sheet: Toruscomparison.xls