Jefferson Lab Alignment Group

Data Transmittal

TO: Tim Whitlatch and Brian Carpenter	**DATE :** Oct 21, 2002	
FROM: Chris Gould	**Checked:**	**#** DT_Z821

Details:

The following are the results of the inspection of SNS vacuum vessel 04 performed the week of October 16, 2002. A right hand coordinate system was established with the central axis running through the upstream and downstream reinforcing rings. The X axis was defined by a plane using the three top hat flanges. Positive X is to the beam left. Positive Y is up. Positive Z runs downstream with Z = 0 at the face of the upstream reinforcing ring. Values are in inches. Attached is the check sheet with measured values to the corresponding features.

Vacuum vessel overall straightness: (CRM9003000-0000, 2/5)	**X**	**Y**
Reinforcing Ring – Upstream	0.00	0.00
Reinforcing Ring – 2nd	0.01	-0.01
Reinforcing Ring – 3rd	-0.02	0.00
Reinforcing Ring – 4th	0.01	0.02
Reinforcing Ring – Downstream	0.00	0.00

Rail Position:
(CRM9003000-0000,4/5)

Station	**Z**	**X**	**Y**
Upstream	1.07	-10.34	-15.74
Downstream	109.08	-10.20	-15.76

Top Hat Flange: (CRM9003000-0000, 4/5)	**Z**	**X**
Upstream	31.75	0.02
Middle	47.54	0.03
Downstream	93.12	0.03