Jefferson Lab Alignment Group

Data Transmittal

TO: Tim Whitlatch and Brian Carpenter	**DATE :** Apr 10, 2003	
FROM: Chris Gould	**Checked:**	**#** Z855

Details:

The following are the results of the SNS high beta vacuum vessel 01 inspection performed the week of April 7, 2003. 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	0.03	0.00
Reinforcing Ring – 3rd	0.00	-0.03
Reinforcing Ring – 4th	-0.03	0.00
Reinforcing Ring – 5th	-0.04	0.00
Reinforcing Ring – 6th	-0.01	0.00
Reinforcing Ring – Downstream	0.00	0.00

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

Station	**Z**	**X**	**Y**
Upstream	38.01	-10.23	-15.73
Downstream	175.00	-10.24	-15.70

Top Hat Flange: (CRM9003000-0000, 4/5)	**Z**	**X**
Upstream	40.58	0.05
2nd	56.36	0.05
3rd	149.31	0.03
Downstream	165.10	0.03