

Jefferson Lab Alignment Group

DATA TRANSMITTAL

TO: E. Daly, B. Carpenter

DATE: May 30, 2002

FROM: Chris Gould

Checked:

: Z777

DETAILS:

Below are the results of the SNS cryomodule return end cap 02 and bridging ring survey performed on May 24, 2002. A coordinate system was established with the central axis running through the aperture of the end plate. The bayonet box was used to control roll. The end plate sealing surface was used to define $Z = 0$. The bridging ring results are based on stick mic measurements taken every 45 degrees clockwise looking upstream with 0-180 at 12 o'clock. Values are in inches.

Drawing Number : CRM9008020 -1115

Description	X	Y	Z
Primary Bayonet Pos.	20.17	13.87	7.73
Shield Return Bayonet	20.13	13.95	19.60
Relief Stack Position	15.17	31.72	15.74
Cool Down JT Position	19.93	36.67	29.82
Cool Down Outlet Flange	20.01	28.21	4.64

Drawing Number : CRM9008020 - 0000

Bayonet Box Offset 10.59

Drawing Number : CRM9008020 - 1028

End Plate Sealing 0.012
Surface Flatness

Warm-to-Cold 0.006
Beampipe Sealing
Surface Flatness

Drawing Number : CRM9008010 – 1036 & CRM9008020 – 1100

<u>Bridging Ring</u>	<u>0-180</u>	<u>45-225</u>	<u>90-270</u>	<u>135-315</u>
0" from Vacuum Tank	42.45	42.45	42.74	42.55
6" from Vacuum Tank	42.45	42.45	X	42.52
12" from Vacuum Tank	42.40	42.43	42.55	42.47