



Jefferson Lab Alignment Group

Data Transmittal

TO: Joe Preble, Frank Humphrey

DATE : Jun 3, 2003

FROM: Kelly Tremblay

Checked:

DT_Z867

DETAILS:

The SNS Hi Beta Cryomodule, serial number 001 was originally surveyed and fiducialized on February 22nd of this year. Due to a vacuum leak, the upstream end flange underwent some repair welding work. We resurveyed the upstream flange on June 4, 2003 (not under vacuum), and found that the foil target reference point located on the flange had moved significantly.

The original and resurveyed coordinates, plus the resulting movements are listed below.

Survey Date	Z(mm)	X(mm)	Y(mm)
22-Feb-03	0.00	1.19	-2.11
4-Jun-03	0.35	-1.08	0.09
Movements	-0.35	2.27	-2.20

The movements indicate how much the flange needs to move in order to be brought back to the original location. The coordinate system is a right handed system with the Z coordinate following beam, X transverse in the horizontal position and Y being in the vertical plane. The flange would need to be moved upstream in the Z direction, 0.35 millimeters, 2.27 millimeters beam left in X and lowered 2.20` millimeters in the Y (vertical) direction.