

Jefferson Lab Alignment Group

DATA TRANSMITTAL

TO: Joe Preble, Bill Schneider, Tim Whitlatch, Kurt Macha **DATE:** Dec. 13, 2000

FROM: Kelly Tremblay **Checked:** # : DT_644

DETAILS:

A repeatability survey was carried out December 12th, 2000 (survey 3), on the quarter cryomodule referenced in DT_642. The purpose of this survey was to determine how well the cryomodule flanges could be determined, using our theodolite system and the cryomodule assembly fixtures as targets. The cryomodule had not been moved since the last survey (survey 2) of December 6th, 2000. The resulting center positions for the flanges and their delta values, for the two surveys are shown below. The units are millimeters.

<u>Transverse Location</u>	<u>Survey 2</u>	<u>Survey 3</u>	<u>Delta (srv3-srv2)</u>
Centerline upstream	0.1	0.1	0.0
Centerline downstream	0.1	0.1	0.0

<u>Vertical Location</u>	<u>Survey 2</u>	<u>Survey 3</u>	<u>Delta (srv3-srv2)</u>
Centerline upstream	1.0	1.0	0.0
Centerline downstream	0.4	0.5	0.1