Jefferson Lab Alignment Group DATA TRANSMITTAL

DATA TRANSMITTAL						
) : Joe	Preble, Bill Schneider, Ti	m Whitlatch, Kurt	Macha	DATE: December 5, 200		
ROM:	Kelly Tremblay		Checked:	#: DT_642		
ETAILS:						
6 th , 2 have esta piers the s cryo coul Thre	2000, in order to evaluate on the location of interna- blish the centerline of the s / Taylor-Hobson control survey to establish the loc module centerline. The f d be detected in the seco	e the effects road s al flanges. The da e cryomodule, base points. The cryor cation of the flange langes are the base ond survey, after a	shipping a cr ta from the ed on its loc module asse es relative to sis for deter test transpo omparison w	eation relative to the granite embly fixture was included i the determined mining if any movement ortation of the cryomodule. was to see if there was any		
	eciable deformation of th module assembly fixture ges.			•		
cryo useo esta mov are v	module were coordinated to transform the second blishing a common coord	d using our theodo I survey data onto linate system for b terior points betwe of our equipment	lite system. the first data ooth surveys een the two (±0.05 mm)	a set, and thereby . There was no significant surveys. The small change). From this it can be		
milli for b	meters, that the alignmen ooth surveys. A positive van nstream). The standard s	It fixture center wat alue indicates the	is found from center is to	t horizontally) distance, in n the calculated centerlines the beam left, (looking nters is approximately ±0.1		
Trar	sverse Location	Survey 1	Survey 2	Delta (srv2-srv1)		

3. The flange heights for both surveys were also determined via cryomodule assembly fixture and are shown below. The units are millimeters and a positive number indicates amount above the calculated beamline.

Vertical Location	Survey 1	Survey 2	Delta (srv2-srv1)
Centerline upstream	0.9	1.0	0.1
Centerline downstream	0.7	0.4	-0.3