Jefferson Lab Alignment Group Data Transmittal									
TO: Tim Whitlatch and Brian Carpenter				DATE : Mar 27					
FROM: Chris Gould			Checl	ked:	# L849r				
Details: The following results a week of March 17, 20 axis running through t of all seven tophat fla runs downstream with inches and degrees.	03. A right he ID of the nges. Posit	hand coordin six reinforcin ive X is to the	ate syster ng rings. F e beam lef	n was established Roll was controlle t. Positive Y is u	d with the central d by an average o. Positive Z				
Reinforcing Rings		z		х	Y				
	Upstream Ring (ID = 31.547)			0.01	-0.08				
	Upstream Ring (OD = 37.924)		0.00		-2.35				
Ring 2				0.04	0.01				
Ring 3			-0.03		0.08				
Ring 4				-0.05	0.07				
Ring 5		181.19 242.66	0.02		-0.02				
Downstream Ring (ID = 31.547)		301.90	0.03		-0.06				
Downstream Ring ($OD = 38.013$)			0.02		-2.39				
Overall Straightness	5 = 0.16								
TopHat Location	//	Z		Х	Y				
Upstream	0.06	30.58		-18.98	-0.11				
TH 2	0.08	69.91		-18.98	-0.02				
TH 3	0.04	109.35		-18.96	0.00				
TH 4	0.05	151.04		-18.98	-0.02				
TH 5	0.06	192.73		-19.02	0.05				
TH 6	0.04	232.16		-19.06	0.03				
Downstream	0.01	271.50		-19.04	0.06				
Vacuum Port (Ref 1- Upstream BL	4)	Radius 16.96	Angle 44.6°	Z to Ring 3 18.45	Z to Ring 5				
Upstream BR		17.00	45.1°	18.44					
Downstream BL		17.06	45.2°	10.77	42.07				
Downstream BR		16.93	45.2° 44.9°		42.07				
Ref. 15									
BL		17.57	32.0°	50.76					
BR		17.57	31.8°	50.78					

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Lockdown Opening	Z to Ring 3	Width	Radius	Angle	Cut
BL	55.92	2.374	15.85	23.0°	18.1°
BR	55.92	2.367	15.73	22.9°	18.1°
Rail Locations 65" From DS Ring 244" Form DS Ring	-	X 5.54 5.62		Y -14.14 -14.19	