## Jefferson Lab Alignment Group DATA TRANSMITTAL

TO: Tim Whitlach, Brian Carpenter	<b>DATE:</b> Jan 14, 2002
FROM: Jim Dahlberg	<b>Checked: #</b> : Z731

## **DETAILS:**

Below are the results of the SNS cavity transport rail survey performed on Jan 11, 2002. Vertically, the offsets are relative to a horizontal plane centered on the rails above the support wheels, which are listed as zero Y values below. Horizontally, the beam left side rail is relative to a base line established from two centerline points on the rail located above the support wheels, which are listed as zero X values below. The beam right side rail is relative to a design offset of 381.00mm (15") from this line. A positive X value is to the beam left, and a positive Y value is high. The stations are measured at one-foot increments with 0 being at the upstream end. All offsets are listed in millimeters.

STATION	X (HORIZONTAL POS.)		Y (VERTICAL POS.)		
	Beam left	Beam right	Beam left	Beam right	
0	-0.21	-0.25	+0.72	+0.78	
1	-0.17	-0.13	+0.60	+0.60	
2	-0.17	-0.08	+0.48	+0.48	
3	-0.03	+0.02	+0.34	+0.34	
4	-0.05	-0.02	+0.18	+0.20	
5	0.00	-0.07	0.00	0.00	
6	+0.23	+0.16	-0.12	-0.16	
7	+0.34	-0.19	-0.30	-0.36	
8	+0.57	+0.07	-0.42	-0.50	
9	+0.77	+0.41	-0.54	-0.70	
10	+0.89	+0.79	-0.68	-0.86	
11	+0.49	+0.48	-0.94	-0.72	
12	+0.07	+0.11	-1.00	-0.78	
13	-0.23	-0.32	-1.00	-0.81	
14	-0.47	-0.59	-1.06	-0.81	
15	-0.65	-0.89	-1.06	-0.78	
16	-0.93	-1.36	-0.98	-0.76	
17	-1.01	-1.43	-0.81	-0.66	
18	-0.91	-1.20	-0.56	-0.50	
19	-0.71	-0.98	-0.40	-0.42	
20	-0.30	-0.86	-0.17	-0.22	
21	0.00	-0.66	0.00	0.00	
22	+0.09	-0.41	+0.24	+0.02	
23	+0.09	-0.23	+0.46	+0.16	
24	+0.09	-0.03	+0.68	+0.36	
25	-0.01	+0.04	+0.84	+0.44	
26	+0.05	+0.25	+0.90	+0.58	

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The cavity string supports centerline as per drawing along the rail assembly a This was the maximum ra were taken with the post	#CRM9000010- nd measured at f ange the supports	2100. Horizontally, ive stations (every s s could be traversed	each support was mo 3' within a 12 foot rang
LOCATION	STATION	Х	
1 (Upstream support)	1 4 7 10 13	+0.2 +0.5 +0.7 +1.1 +0.5	
2	5 8 11 14 17	-0.7 -0.5 -0.2 -1.0 -1.9	
3	8.5 11.5 14.5 17.5 20.5	-0.2 -0.2 -1.1 -1.6 -1.3	
4 (downstream support)	13 16 19 22 25	-0.6 -1.4 -2.4 -1.0 -1.1	