Jefferson Lab Alignment Group
DATA TRANSMITTAL

TO: Tim Whitlatch, Ed Daly **DATE:** Feb 22, 2002

FROM: Richard Schwartz **Checked:** **# :** Z742

DETAILS:

Below are the results of the 0.61 beta space frame inspection survey performed on February 19th and 20th. A right hand coordinate system was established using an average of all six-support rings for the Z-axis. Positive X is to the beam left, and positive Y is above centerline. All measurements are in inches.

WHEEL BOLT HOLES	**X**	**Y**
Upstream Beam Right		
Bolt Hole 1	-9.204	-13.108
Bolt Hole 2	-8.219	-13.757
Bolt Hole 3	-9.146	-15.231
Bolt Hole 4	-10.186	-14.561
Upstream Beam Left		
Bolt Hole 1	8.226	-13.722
Bolt Hole 2	9.237	-13.106
Bolt Hole 3	10.162	-14.575
Bolt Hole 4	9.179	-15.189
Downstream Beam Right		
Bolt Hole 1	-9.252	-13.080
Bolt Hole 2	-8.257	-13.728
Bolt Hole 3	-9.212	-15.156
Bolt Hole 4	-10.189	-14.535
Downstream Beam Left		
Bolt Hole 1	8.226	-13.755
Bolt Hole 2	9.200	-13.115
Bolt Hole 3	10.161	-14.584
Bolt Hole 4	9.131	-15.238

SUPPORT RING	**X**	**Y**
Ring 1 (upstream)	0.051	0.016
Ring 2	-0.014	-0.041
Ring 3	-0.040	0.012
Ring 4	-0.047	0.031
Ring 5	0.013	-0.010
Ring 6 (downstream)	0.037	-0.009

THREADED HOLES ON SUPPORT RINGS	**X**	**Y**
Ring 1A	15.925	-9.178
1B	16.745	7.798
1C	0.064	18.405
1D	-16.570	7.808
1E	-15.906	-9.128
Ring 2A	15.921	-9.161
2B	16.695	7.776
2C	0.054	18.361
2D	-16.659	7.792
2E	-15.910	-9.225
Ring 3A	15.812	-9.128
3B	16.571	7.698
3C	0.042	18.387
3D	-16.632	7.866
3E	-15.997	-9.012
Ring 4A	15.902	-9.089
4B	16.567	7.783
4C	-0.032	18.404
4D	-16.701	7.814
4E	-15.936	-9.131
Ring 5A	15.868	-9.225
5B	16.717	7.769
5C	0.072	18.385
5D	-16.651	7.802
5E	-15.955	-9.108
Ring 6A	15.952	-9.172
6B	16.671	7.794
6C	0.071	18.389
6D	-16.625	7.843
6E	-15.936	-9.124