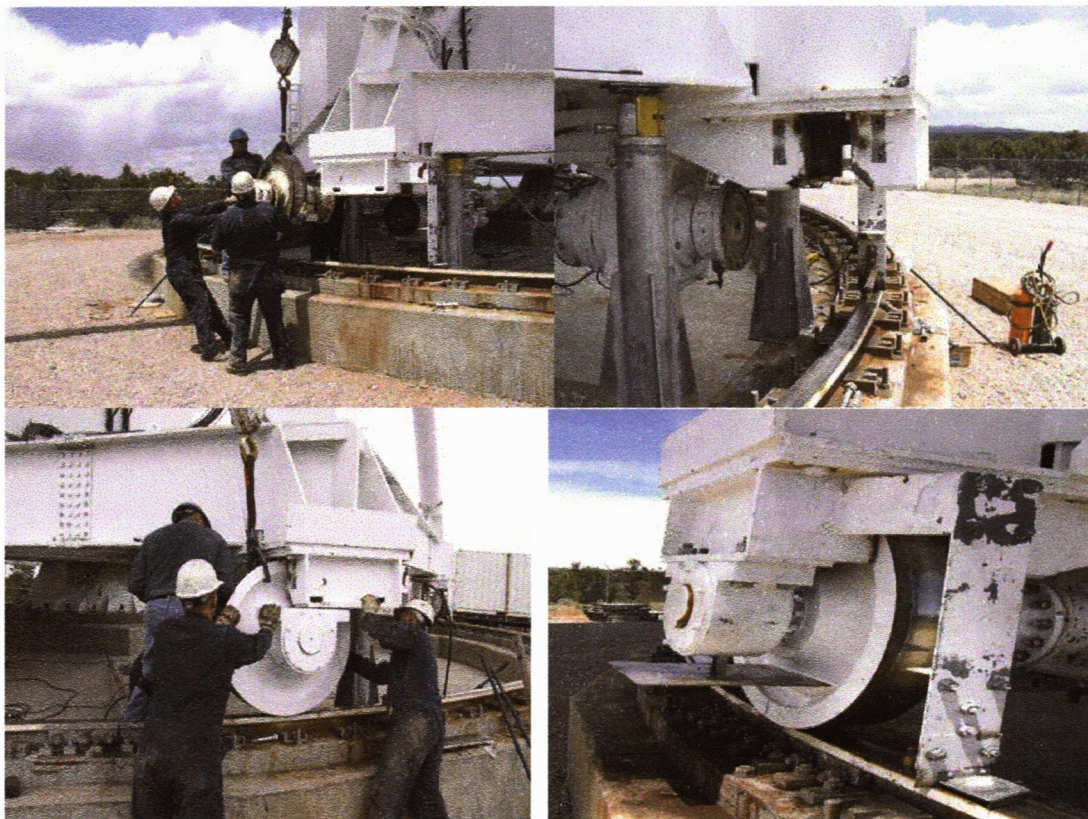


National Radio Astronomy Observatory
Socorro, New Mexico

VLBA Antenna Memo #52
Pie Town Drive #1 Wheel/Bearing Replacement
May 14-18, 2004

During the April Pie Town antenna maintenance visit various sized metal flakes were found in the grease of the inside azimuth bearing on drive #1. A maintenance team consisting of, Jay Apachito, Steve Aragon, Eric Carlowe, Kelly Greene, and Ramon Gutierrez was scheduled to replace the wheel assembly. Engineers at the VLA were consulted during the wheel change.



New Wheel	Measured	Specified
Conic Radius	300.123"	300.000" +/- .25"
Vertical error	93.27'11"	93.26'23" +/- 1'24"
Horizontal error	1'12"	<1'24"
Coupling runout	0.002"	<0.005"

The new wheel assembly ran smoothly and meets all specifications.