

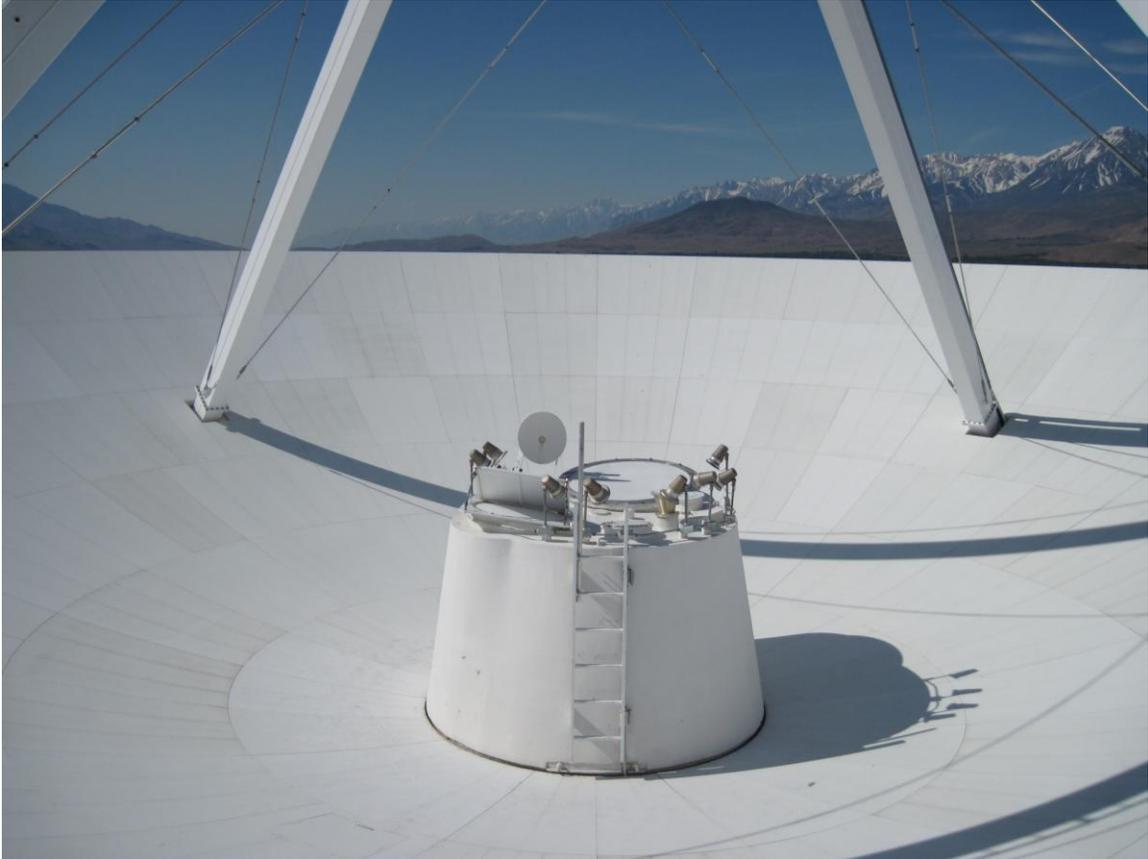
National Radio Astronomy Observatory  
Socorro, New Mexico  
VLBA Antenna Memo #85

Owens Valley, California VLBA Maintenance Visit June 9-15, 2011.  
Team members consisted of Mike Burgert, Eric Carlowe, Ramon Gutierrez,  
Ken Lakies, Ray McFarlin, Martin Lopez and Steve Tenorio. VLBA Site  
Technician Jim Brown assisted in all areas of antenna maintenance.





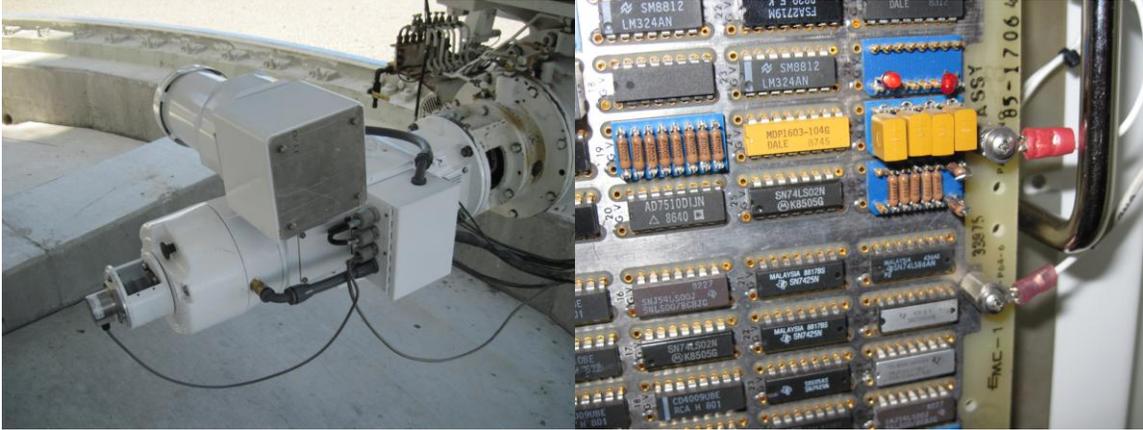
Sub reflector paint is in great condition. FRM was given a thorough inspection and the focus flex shaft was replaced. FRM is well lubricated.



Dish panels are in good condition. The feed cone's elastomeric paint is holding up well. The feed cone was sealed and painted back in 9/2004.



Dichroic reflector is in good condition. Ellipsoid reflector is in great condition and the actuator operates correctly.



Azimuth motor #2 was replaced. AZ and EL gearbox preload were reversed.



The antenna and control building HVAC systems were inspected & serviced.

### AZIMUTH BEARING GREASE INSPECTION

	INNER BEARING	OUTER BEARING
D1	New Wheel.	New Wheel.
D2	New Wheel.	New Wheel.
I1	Good, no metal.	Good, no metal.
I2	Good, no metal.	Good, no metal.
All bearings are very well lubricated.		

### ELEVATION BEARING GREASE INSPECTION

Encoder	Good grease with no metal flakes.
Synchro	Good grease with no metal flakes.
All bearings are very well lubricated.	

Pintle bearing is well lubricated with no metal flakes.



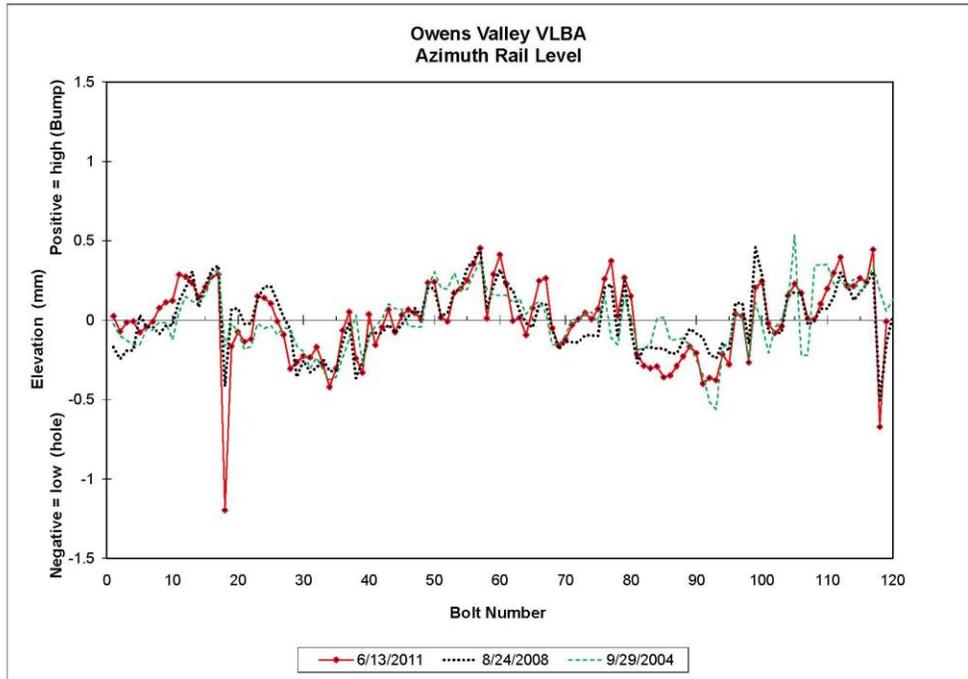
Site techs regularly pressure wash the antenna. Paint condition is excellent.



The C-Band Feed and Fiber installation was completed.



The antenna's rail and grout is in great condition.



Owens Valley's Rail Elevations.