

Interoffice

National Radio Astronomy Observatory

Charlottesville, Virginia

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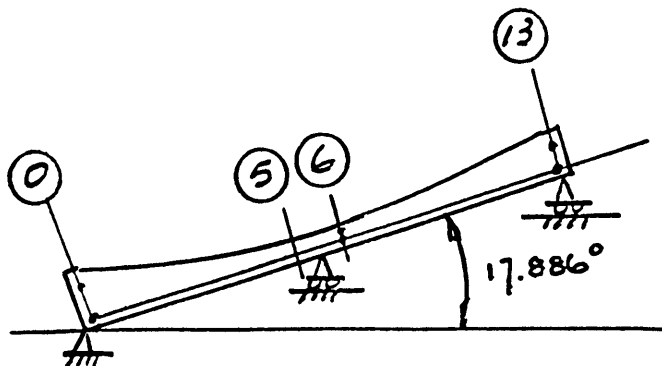
To: W. Horne  
From: L. J. King

12 METER MILLIMETER WAVE TELESCOPE  
MEMO No. 164

Subject: Deflections of the Reference Jig tilted at 17.886°

It was proposed in the 5/11/82 meeting that the reference jig (RJ) be tilted in the same angle as the template on the reflector surface. The D.L. deflections of the RJ due to this 17.886° rotation are tabulated as follows: (mm)

| Sensor Axis |        | Section# |
|-------------|--------|----------|
| //          | ⊥      |          |
| 0.002       | -0.000 | 1        |
| 0.003       | -0.001 | 2        |
| 0.004       | -0.001 | 3        |
| 0.003       | -0.002 | 4        |
| 0.001       | -0.002 | 5        |
| -0.002      | -0.002 | 6        |
| -0.003      | -0.003 | 7        |
| -0.003      | -0.003 | 8        |
| -0.004      | -0.003 | 9        |
| -0.004      | -0.003 | 10       |
| -0.003      | -0.003 | 11       |
| -0.002      | -0.002 | 12       |



The above results are based on a 3-pt supported RJ\*. The center support is at the mid-point of sections #5 and #6, DWG 87D0005, and shall be in line with respect to the end supports. J. Ralston suggests using the existing pins for the alignment. For practical purpose, we may locate the center support at section #6, and use the lower pins at sections 0, 6, and 13 for alignment.

\* The Max. deflection without the center support is .054 mm.