

Interoffice

12 METER MILLIMETER WAVE TELESCOPE

National Radio Astronomy Observatory

MEMO No. 182

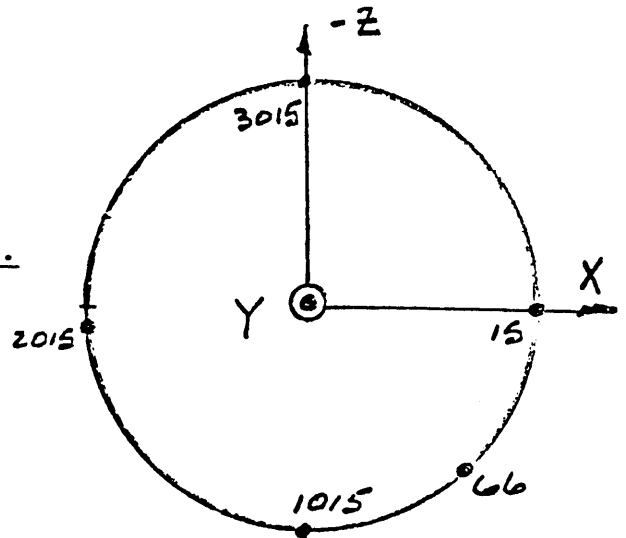
Charlottesville, Virginia

August 10, 1982.

To: J. Findlay

From: L. J. King

Subject: 12M Reflector Edge Deflections due to
(a) 100# conc. loads; (b) panel weight.



| LOADINGS | | | DEFL (μm) | | | | |
|---------------------|------|-----|-----------|------|------|------|------|
| | | | 15 | 66 | 1015 | 2015 | 3015 |
| 100 # CONC. LOAD | 15 | x | 77 | 17 | 17 | 17 | 18 |
| | | y | -111 | -14 | 2 | 27 | 2 |
| | | z | +0 | -9 | -2 | +0 | 2 |
| | 66 | x | 7 | 66 | 27 | 12 | 5 |
| | | y | -14 | -126 | -6 | 19 | 9 |
| | | z | 13 | 53 | 1 | 8 | 5 |
| | 1015 | x | -1 | -9 | 1 | 2 | -0 |
| | | y | 2 | -6 | -102 | 2 | 17 |
| | | z | 11 | 11 | 71 | 11 | 11 |
| PANEL D.L. ONLY | x | 19 | 14 | +0 | 19 | -0 | |
| | y | -56 | -59 | -57 | -57 | -57 | |
| | z | -0 | 14 | 19 | +0 | 19 | |