

## National Radio Astronomy Observatory

12-M Telescope Meeting No. 4

May 12, 1981

1. Present: (CV) T. Riffe, J. W. Findlay, Lee King, W-Y. Wong, M. Balister  
(VLA) H. Hvatum, W. G. Horne  
(TU) M. A. Gordon, J. Payne, P. Rhodes, D. Ross, D. Webb  
(GB) G. Peery
2. Memo Review: HH reviewed the following memos.
  - (a) No. 30 by JMP. Azimuth bearing behavior tests look OK. As already agreed (Memo #23), the azimuth bearing will not be replaced.
  - (b) No. 22 by D. Ross. The size of the dish can be 12-meters -- WGH has checked. Building changes may cost ~ \$15K -- this is OK. Telescope goes to 6° elevation. Agreed that D = 12 meters.
  - (c) Nos. 25 and 26. Receiver mounting looks OK. MAG - need to have access to receiver while observing. JMP - use modular receivers.
  - (d) No. 27. Encoder accuracy. WGH and JMP - no final truce has yet been signed, but the shooting is dying down.
3. The Surface: TRR will send a fairly broad description of our needs (which JWF and WGH are writing) to possible suppliers. He will ask for expressions of interest. If we get only one, we may be able to proceed directly towards a contract.
4. The Back-Up Structure: In work by WGH and WYW. JWF wishes to integrate measuring system needs as soon as possible.
5. PERT: Still under review. JWF asks for 8 weeks for measuring, etc. at Green Bank instead of 4. MAG asks for man-power needs to be included.
6. Surface Testing and Measuring. WYW and S. Smith will set up our ESSCO panel at Green Bank for tests of its thermal behavior.

JWF discussed measuring system. It will be:

- (a) Use of the N-III for edge control.
- (b) A template for surface setting in Green Bank and in Tucson.
- (c) Use a stepped reference radius and perhaps also the N-III to measure the template.