

## National Radio Astronomy Observatory

12-m Telescope Meeting No. 10

June 23, 1981

1. Present: CV - H. Hvatum, J. Findlay, L. King  
GB - B. Peery, R. Moore, R. Fisher, T. Hamed  
SOC - W. Horne  
TUC - D. Webb, J. Payne, P. Rhodes, D. Ross

2. Memo Review - HH: Nos. 51 and 52

No. 51 - No comments.  
No. 52 - Defer till later.

3. BU Structure

WGH - Will be ready for review on June 30.  
LK - Concerns about W-Y. Wong's design.

Refer to first page of No. 39.

- (i) Will need field welding.
- (ii) Removal of structure--will be more difficult than described.
- (iii) Receiver mounting in tubes--with 4 cross beams--weight of telescope will effect receiver alignment.
- (iv) No analysis has been made of the four cross beams. The estimated rocking frequency of 11 Hz--Lee has reason to believe this is far too high.

In general discussion--we cannot easily do a good analysis of the four cantilever cross-beams. This might take some time. Will it be possible to choose a BUS concept on June 30? If not--JWF will have to proceed (Memo No. 52) before this choice is made.

4. The Surface

(a) ESSCO received RFP by June 16th. No reply as yet received.

(b) Memo No. 52

- (i) The reference jig. J. Ralston will check and improve JWF's estimates of design and fabrication time and also check manpower. But do not start design yet.
- (ii) The template. This is a critical and difficult item. Will G. Peery please look at WYW sketch in No. 36 and try to estimate design and fabrication time and manpower.

- (iii) Manpower. JWF prefers J. Ralston for RJ engineer and WYW for template. But this may make a conflict if WY's BUS is chosen. Can this be resolved?

5. Miscellaneous

- (a) Accounts need to be set up. G. Peery has already spent \$300.
- (b) Building problems at Tucson await a BUS decision.
- (c) Next meeting will be at usual time June 30--during the day-long BUS meeting.