

Interoffice

National Radio Astronomy Observatory
Charlottesville, Virginia

August 13, 1982

To: VLBA Electronics Group

VLB ARRAY MEMO No. 113

From: M. Balister

Subject: Minutes of VLBA Electronics Group Meeting

A meeting of the VLBA Electronics Group was held on Wednesday, 11 August 1982. Persons present:

M. Balister
B. Brundage
R. Escoffier
H. Hvatum
R. Lacasse
C. Moore
D. Thompson
S. Weinreb

Dick Thompson and Bill Brundage are new members of the committee.

The major conclusions of the first meeting (June 4, 1982) were summarized:

1. A recommendation by Peter Napier that some considerable time be spent studying and optimizing the antenna/feed RF characteristics in advance of detailed antenna design so that RF problem areas affecting mechanical design can be resolved early.
2. Hein put in a request for a block diagram of the electronics with more detail than in the currently existing ones in the proposal.

Following the review of the first meeting, Dick Thompson stated that we should make sure that we build a receiving system with sufficient flexibility in frequency control so that we could match our observing windows to the frequencies allocated to Radio Astronomy within the U.S. A problem exists at the VLA, for example, observing within the entire protected band of 15.35 GHz to 15.4 GHz with a 50 MHz bandwidth due to too coarse an L.O. frequency control.

It was proposed that Dick Thompson and Bill Brundage keep an eye on the configuration group's site study with an eye on potential interference problems to elements of the array.

