

VLB ARRAY MEMO No. 323

VLBA Electronics Memo No. 10

NATIONAL RADIO ASTRONOMY OBSERVATORY  
Charlottesville, Virginia 22903

February 22, 1984

MEMORANDUM:

TO: VLBA Members

FROM: M. Balister

SUBJECT: Minutes of the VLBA Electronics Group Meeting -  
February 16, 1984

Attendees: Weinreb, Moffet, Norrod, Napier, Thompson, Brundage, Bradley, Campbell, Walker, Sebring, Kellermann, and Balister.

Balister advised the group of the recent appointment of Thompson as Head of Receiver Electronics for the VLBA. He will be responsible for program planning, budgeting and overall coordination of the electronic areas that are the responsibility of this group. He will also become Chairman of this group. Weinreb reported on his work with the 8.3 GHz front-end. He described problems with window seals and possible cures. He emphasized the need for careful study of the plans for pumping down the FE dewars on the VLBA antennas. Recovery after power failures has to be looked into.

Kellermann put in his usual plea for 10.695 and 22 GHz on the first antenna. These requirements have to be carefully considered. Both are likely to put delays into the current plans due to limited personnel. Norrod described his progress with the 1.5 GHz receiver. He is about to order prototype orthomode transitions for this frequency. Some discussion on orthomode transitions for C-band and X-band followed. Napier is circulating a memo on the likely circular waveguide sizes for the various feeds; these should match the transitions!

A long-term test of five CTI Model 22 refrigerators is planned in Green Bank starting summer 1984. Plans for this test were discussed.