

MASSACHUSETTS INSTITUTE OF TECHNOLOGY  
HAYSTACK OBSERVATORY  
WESTFORD, MASSACHUSETTS 01886

7 November 1986

Area Code 617  
692-4765

To: VLBA Data Acquisition and Recorder Group  
From: Alan E.E. Rogers  
Subject: Minutes of VLBA Data Acquisition/Recording Telecon held  
1300 EDT on 5 November 1986

Attendees: Ken Kellermann - NRAO  
Dick Thompson - NRAO  
Jon Romney - NRAO  
Craig Walker - NRAO  
Alan Rogers - NRAO

1] Review of the Status of DAR 1, 2 and REC 1.

a) DAR #1 is now at the VLA site. Testing will probably start within a week.

b) DAR #2 is now under construction. All the bins are in place and rack wiring has started. The rack and modules should be completed in January, 1987.

c) The formatter is coming along. The first VME board is wrapped and the second has been sent out for wrapping. The third board is also designed and ready to be sent out for wrapping.

d) REC #1 is under construction and is scheduled to be completed by February, 1987.

2] Digital Video Tape Tests.

John Webber reports that the signal output from thin 3M and Sony digital video tape is high enough to support much higher longitudinal densities than the present MKIII tape. Densities as high as 56 Kb/inch may be possible thereby further increasing the margins for 12-hour recording on one tape.

3] 16 MHz Bandpass.

Craig Walker asked about the performance of the active filters reported in Acquisition Memo #69. The 16 MHz bandpass performance is not as good as the narrower bandpasses mainly due to limitations in the operational amplifier performance. While the 16 MHz bandpass doesn't have to meet specifications as stringent as for the 8 MHz and narrower bandwidths it may be possible to significantly improve performance. I am continuing to try and optimize the 16 MHz bandpass performance.