

Interoffice

National Radio
Green Bank.

ASTRONOMICAL OBSERVATORY INTERFEROMETER
MEMO No 189

To: Monterville Committee

May 24, 1983

From: R. K. Moore/J. R. Fisher

Subject: Monterville Progress Meeting - 5/20/83

Meeting was held at 10:30am 20 May to review the progress of the Monterville project. The following were in attendance at Green Bank: J. Coe, F. Crews, R. Fisher, D. Hovatter, L. Howell, R. Lacasse, R. Moore, B. Peery, J. Ralston, S. Smith, and R. Weimer. In Charlottesville were M. Balister, H. Hvatum, and B. Meredith.

Contract. B. Peery and R. Moore reported that the antenna contract is complete and contractor paid except 5K being reserved for final painting. Painting contractor will complete painting as soon as weather temperature permits.

Site(s). S. Smith reported that the sites were 99.9% complete.

Link Design and Construction. J. Coe indicated that all is proceeding reasonably well. The path loss on the new link has been monitored for a number of days, and adequate signal strength has been obtained at all times except during very heavy rain. The front end on 85-3 will be removed some time in June for modification for use on the 14 meter telescope. The 85-3 telescope will not be available to the interferometer after removal of its front end.

Link 2 will be completed and tested before Link 1 construction is completed.

Digital Component of the Links. R. Weimer said that most of the digital link design is complete, hardware is being constructed, and this part of the project is on schedule.

Telescope Control System. F. Crews indicated that 5 quotes for suitable controllers are on hand, and a selection will be made shortly. Delivery is on the order of 6 weeks. The Navy has inquired about the possibility of doubling the slew speed of the 14-meter, and, although this modification will not be implemented immediately, the controller will be sized accordingly.

Inductosyn mounts for the new telescope will be fabricated in the shop in the near future, and the inductosyns will be available when required.

Telescope Accessories. L. Howell said that all accessories are on hand and can be installed at the appropriate times without delay. The service elevator at 85-3 will be moved to Monterville after cleaning and painting.

Computer Programming. B. Meredith indicates that he was recently in contact with G. Conant. Conant is trying to arrange his schedule to be in Charlottesville over Memorial Day weekend. It appeared from conversation that Conant's schedule could possibly slip. It was also stated that he would need at least a month to debug his software programs after the link is completed and checked out. Most of his initial programming will be done in Charlottesville, but he will require a number of 8-hour periods at the interferometer this summer as previously arranged.

There is still an open question about atmospheric phase corrections required by the on-line program which will have to be resolved in the near future.

Schedule. The schedule was reviewed by R. Fisher and with minor exceptions appears to be going reasonably well and requires little change.

Budget. R. Fisher indicated that he needs to give T. Riffe an estimated completed budget for the project. A few inputs will be required from F. Crews on spare parts and R. Weimer on digital electronics before submission is made to T. Riffe. The total cost appears to be well within the original estimate.

RKM/JRF/baw