

Interoffice

National Radio Astronomy Observatory
Green Bank, West Virginia

ADDITIONAL BASELINE TO INTERFEROMETER
MEMO NO. 191

To: Monterville Committee

September 15, 1983

From: R. Fisher

Subject: Monterville Progress Meeting - 9/14/83

Meeting was held at 10:30am, 14 September, to review and plot out in some detail the time sequence of events leading up to the computer tests of the new baseline. We need to give G. Conant a firm date for returning to Green Bank. The following were in attendance at Green Bank: J. Coe, F. Crews, R. Fisher, D. Hovatter, L. Howell, R. Lacasse, B. Peery, J. Ralston, S. Smith, R. Weimer, and B. Warner. In Charlottesville were M. Balister and B. Meredith.

Contract. B. Peery reported that only \$5,000 was remaining to pay the antenna contractor and we were waiting for the "Release of Claim". This Release of Claim is our protection that insures us that all the subcontractors have been paid. Our one year warranty will probably be over before everything is tested but B. Peery feels the contractor will still maintain some responsibility and will help out if necessary. Painting is finished.

Site. S. Smith reported that the site is completed. The microwave link tower was modified to provide better azimuth control.

Link Design and Construction. J. Coe reported that the Monterville link antenna was realigned which resulted in a 7 dB improvement in the link path loss. A 21 hour test showed only a maximum fade of 3 dB with a duration of about 2.4 minutes. Modifications on front end box are finished and all of the remote link electronics completed except the interface cable for front end controls. Some of the control building electronics is not finished yet. Jim proposed that we fully test the link RF and digital electronics at the control building before sending the remote portions to Monterville. Everyone agreed that this would be the most efficient method of debugging the system, and the schedule will be modified accordingly.

Digital Component of the Links. R. Weimer reported that the three digital electronics chassis are in various stages of completion. Everything including a modification of the inductosyn box except for some of the environmental sensor interface will have to be completed before George can test his program. Completion of this electronics is expected to take eight more weeks.

Computer Programming. B. Meredith reported that G. Conant no longer works for the company that he did when he signed the contract. Bill hopes that there will be no problem. He knows that George is thinking or wanting to go out West sometime and just hopes we don't have to call him while he is there. Hopefully, his contract with us will not create any problems with a new employer. Computer program tests will probably be in December rather than the previous October date. R. Fisher will call B. Meredith and give him the anticipated date after refining the time schedule so he can call G. Conant.

Telescope Control System. F. Crews and L. Howell reported that all cables are on the antenna. The service elevator is at the site. The motor control electronics has been completed by the manufacturer and their shipment awaits delivery of a chassis handle. Thorough testing of the electronics has been done by the company. Although all of the telescope cables have been installed, a lot of work will be required to connect the electronics to the telescope.

Telescope Accessories. All of the environmental monitors are on hand and await interfacing with the link.

Schedule. R. Fisher went over the time schedule in some detail so he could refine it and distribute a new one in a few days. The anticipated time for testing has extended to possibly November 14th. Should be ready for G. Conant sometime in December. R. Lacasse said that if the efficiency of work at the remote site could be enhanced by using overtime he would be willing to authorize it.

Budget. R. Fisher talked to T. Riffe and told him that we anticipate that the \$1.4 million now in hand will complete the project. We probably will ~~and~~ the construction part of the contract by December 31 and in January the money spent will go on the operating contract. Major parts from stock that were used on the project by Electronics should be purchased and charged to the Navy account to replace what was used or equivalent.

Next meeting will be November 1 at 10:30am.

JRF/baw