

Interoffice

ADDITIONAL BASELINE TO INTERFEROMETER  
MEMO NO. 107

National Radio Astronomy Observatory  
Green Bank, West Virginia

1/18/80

To: Addressees

January 17, 1980

From: R. K. Moore

Subject: Baseline Addition - Interferometer

A meeting of the Task Committee was held at 9:00 am, January 17th. Following were present: F. Crews, R. Weimer, S. Smith, B. Peery, D. Hovatter, L. Howell, J. Coe, B. Moore, and B. Meredith (CV Telecon). F. Crews explained the purpose of the meeting and reviewed the memo received by all committee members from H. Hvatum on the establishment of the committee. Fred explained that the Business Office would be handling the memo series instead of B. Peery in the H. Hvatum memo. He emphasized that all committee members and/or other contributors to the study should submit their original communications to R. K. Moore/Becky Warner for recording and distribution.

D. Hovatter asked that all persons, both committee members and those contributing to the committee effort, should record the time spent on this task because at some later date it may be billed to the Navy.

There was a lengthy discussion concerning the computer and the computer interfaces. As a result the following general conclusion was reached. The committee favors the retention of the DDP 116 computer for this application. B. Meredith, R. Weimer, J. Coe have agreed to further investigate who and how is to provide the required additional support. They are to make recommendations to the committee at a future meeting in the next week or so. It was also agreed that a new computer system should probably be addressed in the study as an alternative along with the problems and cost associated with a new system.

Concerning the alternatives on the telescope, the committee agreed that a surplus telescope was ruled out as far as NRAO is concerned.

B. Peery gave a report on the progress thusfar concerning selection of a recommended course of action on the preferred telescope system. We have asked the Micro-T Company to give us a budgetary estimate on moving NRAO 85-3 to the new site. Buck expects to have some input on this from Micro-T within a week to 10 days. We paid Micro-T's expenses for their trip to Green Bank last week. They are considering helicopter lift of the 85-3 in their estimates. Buck has asked ESCO for a budgetary figure for a new 45-ft. telescope and he expects to have some information on this within a week to 10 days. Fred asked Buck to obtain some specifications and performance data of the 40-ft. telescope by Harris Electronics. It was also noted that we need a heating and air conditioning system for the 85-3 enclosure should it be moved to the new site.

Concerning receiver front-end equipment Jim Coe stated that we would have to modify existing equipment for either 85-3 or a new 45-ft. telescope.

It was also decided that standby power would be needed at the new site and that it should be adequate for stowing the antenna. The size and capability of the standby power would be determined by the size of the telescope selected.

The general outline for our discussion at this meeting was a list of tasks called Baseline Addition - Interferometer. There were 21 items on this listing and a copy was distributed to each member present. A copy was also sent by telecopier to B. Meredith. At the conclusion of the meeting each of the 21 items were assigned to an individual or individuals. The following assignments were made:

- ✓Task #1 - Buck Peery & Bob Moore
- ✓Task #2 - Jim Coe
- Task #3 - Bob Moore
- Task #4 - Jim Coe
- Task #5 - Jim Coe
- Task #6 - Jim Coe
- ✓Task #7 - Buck Peery
- Task #8 - Ron Weimer
- Task #9 - Ron Weimer
- Task #10- Jim Coe
- Task #11- Jim Coe
- ✓Task #12- Buck Peery
- Task #13- Leonard Howell
- Task #14- Ron Weimer
- Task #15- Jim Coe
- Task #16- Leonard Howell
- Task #17- Ron Weimer
- Task #18- Bill Meredith
- ✓Task #19- Buck Peery
- Task #20- Leonard Howell
- Task #21- Jim Coe

It was agreed that individuals assigned the above would collect data and input from other committee members, as appropriate, and turn in detailed tasks by next Tuesday, January 22nd.

Future meetings of the committee will be held as needed and on call of the coordinator Fred Crews. It is hoped that we may meet with Dr. Hvatum in the near future to obtain his guidance and direction.

RKM/baw