

Interoffice

ADDITIONAL BASELINE TO INTERFEROMETER  
National Radio Astronomy <sup>113</sup> Observatory  
Green Bank, West Virginia

2/14/80

To: J. Marymor

February 14, 1980

From: R. K. Moore

Subject: Extension to Interferometer Baseline

The Navy has expressed definite interest in extending the Interferometer Baseline by the placement of a telescope some 35 km to the west. They have requested and funded a study effort to determine time and cost to accomplish this end. A study group has been formed and are presently engaged in preparing information in the form of proposals to the Navy by 1 April, 1980.

The principal cost item will be the telescope. Under consideration is the possible movement of 85-3 from Green Bank to the new site and the purchase of a new telescope in the 40-45 ft. category. Some preliminary information has been obtained on moving the 85-3 and also for the purchase of a new 40-45 ft. telescope. Estimates for a new telescope have been obtained from ESCO, SRI, and Harris Electronics. From these preliminary estimates it appears that a new telescope will cost in the neighborhood of 800k. At the present time the task force members are leaning in the direction of recommending a new telescope instead of moving 85-3. Accordingly, it has been recommended that we prepare specifications and request proposals for a new telescope to further pin down prices.

G. M. Peery is preparing these specifications. Before proceeding with solicitations we feel that it is highly desirable to obtain approval of the National Science Foundation. The Navy has indicated to us that funding is available. Dr. Hvatum is aware of the foregoing and has requested us to proceed with specifications and solicitations.

Please obtain approval of the National Science Foundation at the earliest possible date. Should you require additional information to obtain this approval, please contact me or B. Peery.

RKM/baw

cc: F. Beverage  
B. Peery ✓