

December 20, 1961

Dr. J. L. Pawsey
21 Derby Street
Vaucluse, N.S.W.
Australia

Dear Dr. Pawsey:

Thank you for your recent letter. I am pleased that you have accepted the position as director and am looking forward to your arrival and to working with you. It would be a good thing if you could come here for a month at an early date -- March would be fine. In the meantime I will try to keep you up to date on activities here.

As you know from our cable, it has been firmly decided to proceed with the 140-ft. telescope on the basis of the original design as modified by Stone & Webster. I believe this is the proper decision, when all factors are considered. Several very important changes have been made which make me optimistic that the telescope will now be completed in a reasonable time and that it will be an excellent instrument. First, direction of the project for AUI is now in the hands of two extremely competent men -- Mr. Edward Reynolds, for contractual and business matters, and Mr. Max Small, for over-all daily direction of all aspects. Reynolds is former vice president for Administration of Harvard. Small is an engineer by training and has had a great deal of experience in both engineering and in management. He has been at Brookhaven for many years, and was project manager for the AGS (alternating gradient synchrotron) -- a job much larger and more complicated than the 140-ft. I have great respect for and confidence in both these men. Second, AUI has hired Stone & Webster Engineering Corporation to handle the detailed engineering and management under Reynolds and Small. This is an experienced outfit, and the people they have on the job have impressed me highly. The modifications of the original design have been made by these people, in several cases following suggestions of Emberson or Halik of AUI. These modifications represent a considerable improvement, in case of fabrication and erection, in reliability, and in performance of the telescope. Finally, the contract with Bliss to fabricate and erect the telescope has been terminated, and better qualified firms have been found to do the remaining work. This is a very good move.

We all agree with your evaluation of the potential of Weinreb's work. He has just completed a two months search with the 83-ft. for Zeeman splitting in the absorption lines from Cas A and Tau A. The material has not yet been fully reduced, so we don't know the results. We do know, both from this

Zeeman experiment and from his earlier observations to detect deuterium, that his receiver works beautifully. He is now assisting us in the development of an autocorrelation receiver for hydrogen line work. He will spend another couple of months at Green Bank and then return to MIT to complete his degree work. We hope to induce him to return to Green Bank when he finishes at MIT.

I will mention a few other things that may be of interest to you, and will follow with more details in later letters. John Findlay has already written you about the 300-ft. I think it will be a very valuable instrument, and should give the Observatory a big boost. S. von Hoerner, whom I believe you met in Berkeley, has accepted a position here. He will join us in May. He is an excellent astronomer, stimulating to be around, and a fine person. I think he will be a great asset to us.

We are engaged now in preparing the final form of the budget for the next fiscal year, which begins in July 1962. We had requested \$1 million for the antenna discussed by von Hoerner in Pub. NIAO Nos. 2 and 4. The NSF has disallowed this request on the grounds that (a) the current political situation is such that Congress wouldn't approve it, (b) planning for the telescope is not sufficiently far advanced, and (c) they don't know your reaction to this program. I will send you more information about this budget shortly. It will also be necessary soon for us to make first plans for the following year's budget (July 1963 to June 1964). We should discuss this when you come in March, but I will send you some preliminary information and ideas.

Sincerely yours,

D. S. Heeschen

cc: Dr. Rabi