



Government of Canada  
Department of Communications  
Communications Research Centre,  
Shirley Bay,  
P.O. Box 11490, Stn. 'H',  
Ottawa, Ontario,  
K2H 8S2

Gouvernement du Canada  
Ministère des Communications

*Posted 2/2/86 Special Delivery \$2.64  
Rec'd Hobart 4/3/86, Picked up 5/3/86*

Your file Votre référence

Our file Notre référence

DRL5660-2

21 February 1986

Dr. Grote Reber,  
General Delivery,  
Bothwell, Tasmania,  
Australia 7030

Dear Dr. Reber,

I have discussed your letters to Dr. Norman Broten and Muldrew with Drs. J.S. Belrose and H.G. James. Unfortunately, we have been unable to contact Broten; he must be extremely busy. When we do, we will send you further information.

When you come to Canada, you should have a Canadian sponsor. No radio astronomy is being done at CRC and hence someone at NRCC should sponsor you. If you can find a NRCC sponsor, a formal arrangement could likely be made to allow you to use, and have access to, the Ashton site. CRC guards visit the Ashton site periodically and hence a formal agreement is necessary. The building is heated, has power and a phone. Hence, there should be no problem here unless you make a large number of long distance calls.

The antennas are cut for 2.66 MHz and broadbanding in the range 1.6-2.4 MHz would be difficult. The receivers and other equipment at Ashton can be used by you but they are about 1950/60 vintage.

The poles at Ashton are in a square array ( $5 \times 5$ ) and are separated by  $\frac{1}{2}\lambda$  at 2.66 MHz. One side of the array is oriented about  $19.5^\circ$  west of true north.

To work on top of the poles, a 25-ton crane with a 100 ft boom (plus bucket) is required. The cost for the equipment and crane operator is \$70 (Canadian)/hr between 0700 and 1630 hrs and \$95/hr on weekends and before 0700 hours or after 1630 hours. These charges apply to transporting the crane as well. There is a minimum 4 hour charge per day. It is thought that the rented time would be closer to 1 week than  $\frac{1}{2}$  day.

CRC labour could probably not be supplied for working on the antennas. However, antenna wire should be available at CRC.

The contract technician at the Ashton site is:

*2/3/86 copy of this letter came by telegram.*

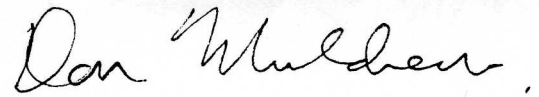
Canada

Mr. Ron Hurd,  
P.O. Box 495  
Richmond, Ontario K0A 2Z0  
Canada

He would be pleased to answer any questions regarding equipment, especially the ionosonde, at the Ashton site. He probably would not be authorized to work on other projects.

If we obtain more information from Broten, we will pass it on. We wish you the best of luck in your endeavour.

Sincerely yours,

A handwritten signature in cursive script that reads "Dan Muldrew". The signature is written in dark ink and is positioned to the right of the typed name.

D.B. Muldrew

c.c. N. Broten