

AUGUST 29, 1960

DR. GEORGE SOUTHWORTH
19 WILLIAMS ROAD
CHATHAM, NEW JERSEY

DEAR DR. SOUTHWORTH:

PRESENTLY I AM COMPOSING A SHORT DITTY ON THE ORIGIN OF THE CROSS ANTENNA. YOU WROTE A LETTER TO ME IN 1956 OR 7 WHICH IS PRESENTLY FILED IN TASMANIA. THEREIN YOU MENTIONED THAT YOU CONSIDERED THIS IDEA FOR USE AS A HIGH RESOLUTION ANTENNA HAVING LOW HEAD RESISTANCE FOR AIRCRAFT. PRESUMABLY THE ELEMENTS WOULD BE TROUGH TYPE OF HORN AND THE WAVELENGTH A FEW CENTIMETERS. I AM WONDERING IF YOU COULD GIVE ME ADDITIONAL DETAILS INCLUDING WAVELENGTH, SIZE, YEAR OF DESIGN ETC. WAS ANYTHING EVER BUILT AND DID YOU INTEND TO EMPLOY SWITCHING AS MILLS DOES?

ABOUT A MONTH AGO BECK AND THOMPSON WERE DOWN HERE TO DISCUSS THE REPRODUCTION OF JANSKY'S ANTENNA. I TRIED TO PUT THE BEST FOOT FORWARD. IF THIS PROJECT BECOMES AN ACCOMPLISHED FACT, I'M SURE IT WILL BE NOT ONLY AN INTERESTING AND INSTRUCTIVE DEVICE FOR VISITORS BUT ALSO A FITTING MONUMENT TO JANSKY.

TOWARD THE END OF SEPTEMBER WHEN IT COOLS OFF A BIT I EXPECT TO BE IN NEW YORK CITY FOR A FEW DAYS. PERHAPS WE CAN GET TOGETHER AT THAT TIME.

BEST REGARDS,

GROTE REBER

Sent Bull Geo Soc. Sept 59