

November 17, 1947

Mr. John Barron  
Radio Consulting Engineer  
Earle Building  
Washington 4  
D C

RE: Troy Record Co.

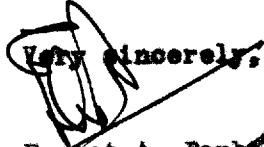
Dear John:

I was glad to get your views on pattern distortion possibilities. However, I have since talked with Bill Broughton at General Electric who assured me that by the time we will want our FM 4-Bay antenna for mounting that delivery can be made of the mast with the donut elements arranged for outer pole mounting. The pattern therefore should come out approximately as calculated by you in your coverage contour map.

In order to derive a combined tower-antenna height of 100 ft. as measured from the ground level to center line of the radiating section of the antenna, this will require a tower or supporting structure of approximately 77 or 78 ft. as near as can be calculated from GE's outline drawing of their 4-Bay circular antenna. GE does not show exact dimensions of their ring spacings due to variance of wave length spacings, but Bill said this was close enough for our purpose. If this is O.K. with you we will proceed to buy a tower of approximately this height. I have asked the builders to quote on their nearest standard height which probably will be 80 ft. Incidentally, on your recommendation, I have asked for 30% wind-loading. GE's new 100 ft. television tower in the Helderbergs was built to withstand 25% loading. Their tower was also welded at all joints. I can see no good reason for welding ours, can you?

Thank you for copy of your telegram to Frank York telling him of the Commission's approval of our new site. This was mighty good news. Now we should see if our friend was bluffing or not.

kindest personal regards.

*Very sincerely,*  


Ernest A. Barbeau  
Radio Consultant

EAB/MW

CC- Mr. F. L. York  
The Troy Record Co.  
Troy, N. Y.