



*Marlboro, Massachusetts*

OFFICES AND STUDIOS AT CURTIS AVE.

February 15, 1959

Mr. Cooper, Editor  
National Radio Club  
438 East 21 st Street  
Brooklyn 26, New York

Dear Mr. Cooper,

Many thanks for your nice letter of February 4 th. I'm glad that our WSRO signal was heard by you on February 4 th at 6:00:15 am.

The ionospheric sky-wave propagation of early morning and evening hours provide excellent singular or/and multihop skip transmissions. The properties of skip distance depends upon the broadcast frequency and the state of the ionosphere, and upon the height of the layer in which the refraction takes place. When the above requirements for our frequency of 1470 Kcs are met, refraction properties take place, bending our signal back to earth in relationship to the critical angle. Thus under these conditions, it's possible to hear us and many other DX stations.

Our WSRO one KW output is radiated from two 167 foot towers, so positioned in respect to each other, the height, and the ratio of radio frequency currents to the towers, produces a somewhat north-south directional pattern. Pattern actually is like that of a man's face, with the nose toward Boston. We are giving coverage to East-Central Massachusetts and not actually covering Boston. Sorry, but I can not send a copy of our WSRO Coverage Map because our pattern will be changed in the near future to give our market areas a stronger signal.

Our directional array is protecting WNBK (1470 Kcs) in Newburyport, a half KW job, and also WBET (1460 Kcs) in Brockton, one KW.

WSRO, at the moment, is not affiliated with any other station. Our schedule, monday through saturday: 6:00 am through 5:15 pm, during the month of February and 8:00 am through 5:15 on sunday. Next month sign-off will be at 5:45 pm.

1470 ON YOUR DIAL . . . 1000 WATTS



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OWNED AND OPERATED BY COUNTY BROADCASTING CORPORATION

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WSRO began regular broadcasting on January 3 rd, 1959.

Marlboro is centered at East-Central Massachusetts. Population is better than 18 thousand. Our market coverage area covers the complete East-Central Massachusetts areas.

For matter of interest: Marlboro is named after the town 'Marlboro' in England. Indians used to live in this region, therefore, names of places in Marlboro and other towns and their names are of Indian origin. Marlboro was incorporated in 1660 as a city.

I hope that I have answered all of your questions. I would appreciate knowing if you receive WSRO again, please give our signal strength in S Units and <sup>the</sup> if condition of QRN or/and QRM.

Thank you once again,

Peter Russett, WLIWK Radio

Assistant Chief WSRO, Marlboro