

“ C O U N T R Y P O L I T A N ”

THE WELCOME GUEST OF THE GREAT SOUTHWEST

**KGYN**

10,000 WATTS  
ON 1210 KC.

**GUYMON, OKLAHOMA**

December 7, 1984

Mr. Wayne Heinen  
4131 S. Andes Way,  
Aurora, Colorado 80013

Dear Mr. Heinen:

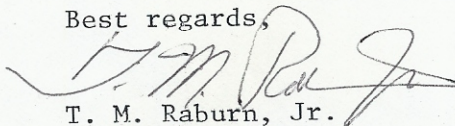
First let me say thank you very much for calling my attention to the improper radiation we were emitting. The situation has been corrected and we are now within the prescribed parameters.

It may seem peculiar that we had not noticed the problem but our routine readings and weekly directional antenna check points were correct because the excessive band width that you noted will not show up on the normal readings. There are no nearby radio stations on the two frequencies where the spurs showed up so no local listeners called in. We are a ten-thousand watt station and put about 70 millivolts into the primary community of Guymon. As you can appreciate there is a tendency for us to modulate carriers within 30 kilohertz on the cheaper radios, particularly the pocket style. Anyway we had no idea that we were putting out spurious emissions.

The cause? We control our transmitter by remote control thru an STL. the control telemetry is by sub-carrier and uses two frequencies based on a carrier of 22 kHz. The STL receiver has a low frequency filter with a 15 kHz cutoff and a notch filter at 22 kHz to pick out the telemetry. The telemetry info is of course digital and you may have noted it as a "CH-CH-CH-CH-" motorboating on the spurs. Something had gone wrong in the receiver&the 22 kHz sub-carrier was not being filtered out. It at least says a good thing about our transmitter frequency response since we were getting the 22 kHz modulation all the way thru. Needless to say the problem has been corrected and our "Buddy" won't know about it if we get monitored.

Again my sincere appreciation for your notification. As I noted above we probably would not have caught it until the FCC did.

Best regards,

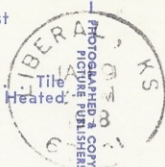
  
T. M. Raburn, Jr.

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# Post Card

This verifies your report of  
1/2/78 11:20-11:28p CST on  
KGYN radio 1210 kHz in Guymon  
Oklahoma

Signed *Maurice Rabun*

Date 1/6/77

TO:

Mr. Wayne Heinen  
427 E. Caramillo St  
Colorado Springs, CO  
80907