

Arthur Doak

From: Jerry Olson [jolson@kpbx.org]
Sent: Friday, March 02, 2012 3:18 PM
To: Arthur Doak
Cc: Linda Stowe; Ernie Sanchez; Conrad Agte
Subject: Measurement Guidance
Attachments: KSFC C3 CP.pdf

Hello, Mr. Doak

I attempted to leave you a voicemail but my call got dropped in the transfer. Subsequent calls have gone to the Media Bureau's voicemail.

I need to have some measurements made on my KSFC gear regarding compliance with spurious emission levels using a combined antenna. This is an excerpt from our CP.

2 BEFORE PROGRAM TESTS COMMENCE, sufficient measurements shall be made to establish that the operation authorized in this construction permit is in compliance with the spurious emissions requirements of 47 C.F.R. Sections 73.317(b) through 73.317(d). All measurements must be made with all stations simultaneously utilizing the shared antenna. These measurements shall be submitted to the Commission along with the FCC Form 302-FM application for license.

This is for an application to cover a power upgrade to C3. I've attached the CP which expires on March 30.

What we had before was two Class A stations (KSFC 91.9 and KPBZ 90.3) being combined through an ERI combiner/filter into a single antenna. Both stations are currently running FM+HD.

With this power upgrade for 91.9, we've gone to space-combining for KSFC only. So now, the HD part of 91.9 will still go through the filter/combiner along with the FM+HD from 90.3. The analog-only part of 91.9 will go to a separate transmitter and antenna.

To file the license to cover, I need to submit "sufficient measurements" that I'm in compliance with the above-mentioned rules.

Can you give me some guidance as to what type of measurements will be required so I can file? When we initially built the stations and again, when we were granted a previous small power upgrade, we took measurements from sample ports on the antenna side of the filter/combiner. Is this the type of measurement needed? In other word, is the purpose of the measurement to make certain that the filter/combiner is not producing out-of-band products? I have a contractor lined up to do this but we want to make sure we're looking in the right place.

Thank you.

Jerry Olson, CE
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