

OCCUPIED BANDWIDTH, HARMONIC AND INTERMODULATION TEST FOR KOST-FM1

The location of the booster transmitter for KOST-FM, known as KOST-FM1, authorized in construction permit BNPFTB-20140624AAG, is located at the Oat Mountain communications site, approximately 30 km northwest of Burbank, CA. On August 20, 2015, KOST-FM1 was operated in to its antenna, at the power required in the construction permit, so that measurements indicating its compliance with 73.317(b), (c) and (d) could be completed. It should be noted that KOST-FM1 uses the same antenna as KIIS-FM1, KBIG-FM1, and KRRL-FM1, and for that reason, the other three transmitters were also operated at power for the duration of the measurements. Only in this way can potential intermodulation products be discovered.

An RF sample was taken directly from the output of the star-combiner that feeds the antenna for KOST-FM1. This RF sample provides a signal that is 30 dB below the output power level. An additional 10 dB attenuator was placed directly ahead of the spectrum analyzer input. Approximate power in the spectrum analyzer was on the order of +10 dBm for each of the 4 channels in the output of the star combiner.

Measurements indicate that KOST-FM1 is in compliance with the occupied bandwidth specifications required in 73.317 (b) and (c). Additional measurements were taken to look for the presence of harmonic content, or intermodulation products as specified in 73.317(d). None were found to exceed the limits specified.

KOST-FM1 has been shown to be in compliance with all requirements set forth in 73.317(b), (c) and (d).

Doug Irwin

RF Engineer/Project Manager

iHeartMedia/ Los Angeles