

# Dielectric

David Cassels  
Chief Engineer  
KPVU (FM)

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Subject: KPVU Interleaved FM Patterns

David,

The pattern studies performed here at Dielectric were performed for interleaved antennas. The Aux antenna is a backup to the main antenna, but its main function is for IBOC. The center of radiation between the two antennas is not the same; the center of radiation is different by 64.625". The IBOC antenna's center of radiation is below the main analog antenna.

In addition both the IBOC and the analog antennas are pointing at the same azimuth. Both antennas are pointing towards 120 degrees true north.

Interleaving antennas is an accepted method for IBOC applications by the FCC. The pattern packets that we supplied to you with the addition of this letter should help you get your license with the FCC. Please let me know if you need additional information from Dielectric to help clarify your antenna situation.

Sincerely,



Keith Pelletier  
Senior Electrical Engineer  
Dielectric Communications