

Question No. 7 - Narrative Statement (AMENDED)

UltraVision Security Systems, Inc. is developing an ultra-wideband security device. This technology has the potential to be less affected by weather and less sensitive to false alarms than other types of security devices. Under the requested license, UltraVision will construct prototypes and conduct experiments on their performance at the company's manufacturing facility, with the eventual aim of applying for FCC certification.

The device is an ultra-wideband transmitter modeled closely on ground penetrating radar (GPR) devices certified by the FCC to UltraVision's parent company, Geophysical Survey Systems, Inc., grantee code QF7.

The ultra-wideband bandwidth lies within 216-700 MHz.

The device complies with the emissions limits set out in Section 15.510(c) for through-the-wall imaging systems whose ultra-wideband bandwidth is below 960 MHz. Radiated emissions below 960 MHz comply with Section 15.209. Out-of-band emissions above 960 MHz comply with Section 15.510(c)(4). GPS-band emissions comply with Section 15.510(c)(5).

Emissions noted in the preceding paragraph were measured as specified by the Commission, but without the prescribed half-inch gypsum or drywall board. *Ultra-Wideband Transmission Systems*, 17 FCC Rcd 7435, Appendix F at para. 2 (2002). Emissions measured with the gypsum or drywall in place would be a little lower.

When in use under the experimental license, the transmitters will be buried under 6-8 inches of soil and pavement, which will significantly attenuate the emissions.

The experimental application will entail approximately ten units buried around UltraVision's facility in Salem, New Hampshire. These will function as motion sensors, and will automatically aim closed-circuit TV cameras toward any motion detected. In the unlikely event that a nearby receiver reports interference from this operation, chances are the vehicle or person carrying the receiver will appear on the camera recordings.