

Sarnoff Corporation

Other Particulars:

The Sarnoff Corporation seeks an experimental license to further evaluate previously approved and FCC type accepted Ultra-Wideband equipment beyond the present certification under FCC part 15 rules.

The FCC-certified equipment is specified as FCC ID QCJPAL650. This ultra wideband tracking equipment, both original qualified hardware, and modified hardware, will be supplied by Multispectral Solutions, Incorporated. Multispectral Solutions will also participate in the experimental evaluation of their equipment at the Sarnoff facility in Princeton, New Jersey.

Two exceptions to the present certification are requested under this experimental license request and discussed in more detail in section 4 below.

First, permission is requested to operate this equipment outdoors. (Indoor operation only specified under Part 15 rules certification)

Second, permission is requested to operate the equipment indoors and outdoors with increased transmitted power. (Emitted power as defined under Part 15 rules certification requested to be increased to a maximum power of one and one half (1.5) watt.

The experimental hardware to be used by Sarnoff Corporation is a higher powered version of an FCC certified Ultra Wideband Transmitter (QCJPAL650). The Grant of Equipment Authorization dated 07/31/2002 is attached (as exhibit 002) for reference. The need for the higher power is to extend the range of MSSI's real-time location system in support of soldier tracking in urban environments.