

Narrative Statement

Sennheiser Electronic Corporation requests this license in order to experiment with a novel form of entertainment that has possible applications to public safety.

Sennheiser plans to produce “silent opera” performances in which each member of the audience hears the performers through wireless headphones, allowing both the performers and the audience to be mobile and interactive throughout a performance space of approximately 100 meters radius. The space is part of a public area. Vocalists will sing live as they move through the area. The use of wireless headphones eliminates the need for area-wide amplification, delivers a private experience to each listener, and protects persons in the area who are not part of the audience from being disturbed.

Sennheiser plans to use off-the-shelf FM wireless headphones (Sennheiser models HDR110 and HDR 120-II) with receiving frequencies 926-928 MHz. The transmitter will be a professional model SR 3056 or SR 3256 stereo transmitter having a maximum output power of 100 mW *modified* to operate at 926-928 MHz. The unmodified versions are certified under FCC IDs DMOFT30UMB and DMO2SREK3K respectively. Because the modifications for this project will take the transmitters out of compliance with their certifications, Sennheiser will not label the modified transmitters with FCC IDs and will not market them.

The system to be used in this experiment has potential applications beyond entertainment, such as translation, guidance for the disabled, and emergency instructions within a public space.