Kenwood USA Corporation
STA Application
IWCE Convention Demonstration
STA File Number 0042-EX-ST-2012

This STA Application proposes the use of Television channel 14 for short-range demonstration and operation of Kenwood products within the Las Vegas Convention Center. An engineering study has been conducted, which revealed that there is no on-air television station or low power television station within 100 miles of the Las Vegas Convention Center. There will therefore be no interference to any television viewer from operation in the 470-476 MHz band. The application also proposes the use of the 900 MHz land mobile band for very low-power demonstrations of Kenwood radio products at the IWCE land mobile radio show in late February.

The STA sought is identical to STAs requested and granted in 2005 through 2011 for operation and demonstration of Equipment Authorized devices at the IWCE trade show, Las Vegas, Nevada. The Prior STAs were WC9XDC, File Number 0129-EX-ST-2005; WC9XOF, File Number 0274-EX-ST-2006; WC9XWR, File Numbers 0075-EX-ST-2007, 0619-EX-ST-2007, 0084-EX-ST-2009; WE9XGZ, File Number 0111-EX-ST-2010 and 0130-EX-ST-2011.

Information called for by Commission staff in connection with the previous filings of this STA application with respect to Television channel 14 is as follows. Use of the 900 MHz band follows all Part 90 rules. Proposed is simplex and repeater demonstrations: the portable radios will transmit at up to 2.5 Watts, and the repeater at ground level will be at 0.36 Watts (i.e. no amplifier).

1. TV channel Number: 14

2. Antenna location site elevation above mean sea level of Las Vegas Convention Center: 623 meters.

3. Overall antenna height above ground level: 3.02 meters (small mobile antennas running from repeater rack and mount on booth display structures 3.02 meters above showroom floor).

4. Height of radiation center above ground level: 3.02 meters.

5. Maximum ERP is 0.005 kilowatts.

6. Maximum Transmitter power output is 0.005 kilowatts.

7. Non-directional antenna: small omnidirectional mobile antenna, unity gain.

8. Digital emission mask is simple, as indicated in lab reports submitted. (4-level FSK encrypted digital mode; 6.25 kHz emission Mask E envelope)

9. FM analog emission has zero offset. (12.5 kHz, emission mask D envelope).