

**HARRIS CORPORATION
EXPERIMENTAL LICENSE APPLICATION
FILE NO. 0373-EX-PL-2007
WC9XVL
AUGUST 2007**

EXHIBIT I

DESCRIPTION OF EXPERIMENT

Harris Corporation ("Harris") hereby requests an FCC experimental authorization license to conduct testing of new wideband digital data/voice vehicular and handheld radios capable of forming a mobile ad hoc network for United States military use (pursuant to governmental contract Number CCEP MOA 031-05). Harris is currently conducting experimental tests of this equipment pursuant to Special Temporary Authority ("STA") granted on February 26, 2007 (Call Sign: WC9XVL; File No. 0900-EX-ST-2006). Pursuant to Section 5.61(b) of the FCC rules, 47 C.F.R. § 5.61(b), this application for permanent authorization is being filed within fifteen (15) days of the STA expiration date. Harris intends to continue the critical experimental testing as authorized by STA pending disposition of the permanent authority application.

The radios being tested have a tunable frequency range of 225 MHz to 2000 MHz, and operational bandwidths selectable from 500 kHz to 5 MHz. This request is for a total of three 5 MHz bandwidth frequencies. Under the current STA, Harris is authorized to use the 229.5-234.5 MHz, 294.5-299.5 MHz, and 359.5-364.5 MHz frequencies. Harris has replicated those frequencies in this application and requests Commission grant of those frequencies. The radios operate on only a single frequency at a time and typically have a line of sight (LOS) range of 1-10 km. The radios form a mobile ad hoc network capable of supporting 48 radios or more on a single frequency. Operations would include multiple radios (both vehicular and handheld) attempting to simulate typical military communications needs in rural, suburban, and urban environments.

Harris understands that the Special Conditions as granted in the STA will be applicable to the permanent authorization, namely: **1)** Harris Corporation must notch out the following frequencies +/- 12.5 kHz: 360.700 MHz, 360.800 MHz, 363.050 MHz, and 363.100 MHz; **2)** Harris Corporation must notch out the following bands: 231.725-231.775 MHz, 232.525-232.575 MHz, 294.575-294.625 MHz, 295.550-295.600 MHz, 296.775-296.825 MHz, 360.475-360.525 MHz, 361.125-361.175 MHz, 363.275-363.325 MHz, and 364.175-364.225 MHz; **3)** No operations are permitted within 24 hours of a space shuttle launch at Kennedy Space Center, FL, if the operating frequency is in the 243 MHz to 297 MHz band; **4)** Harris Corporation should be aware that there is no 5 MHz of space that is free of restriction in the requested area of operation; and **5)** In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.

Harris acknowledges that its operations will be on a non-interference basis.

Because the equipment is technically incapable of providing station identification, Harris respectfully requests a waiver of the station identification provisions of Section 5.115 of the Commission's rules, 47 C.F.R. § 5.115.

All network traffic will be simulated traffic only, solely for evaluation purposes and not for the purpose of providing network data communications services to user stations.

Harris submits that a grant of this application is necessary and in the public interest because it will advance critical national security efforts.