

**HARRIS CORPORATION  
EXPERIMENTAL LICENSE APPLICATION  
FILE NO. 0080-EX-PL-2015**

**EXHIBIT I - DESCRIPTION OF EXPERIMENT**

Harris Corporation ("Harris") hereby requests an FCC experimental license to conduct testing and customer demonstrations utilizing its Falcon III family of Wideband tactical radios at its Sunrise, Florida location.<sup>1</sup>

The testing/demonstrations will utilize the following equipment:

Harris Corp. RF-7800M-MP, 10 units

Harris Corp. RF-7800M-HH, 3 units

Harris Corp. RF-7800W, 2 units

The tactical handheld radios will be operating in a TDMA waveform and have a tunable frequency range of 225 MHz to 512Mhz. Harris intends to utilize the frequencies previously authorized by the Commission under STA File No. 1185-EX-ST-2014. In the event that these frequencies are not available for a permanent experimental license, Harris requests the ability to modify the selected frequency ranges.

C4I data from the Handheld nets will be aggregated utilizing our tactical man pack radios, which will be operating in a TDMA waveform and have a tunable frequency of 225 MHz to 2000 Mhz. These radios will require one net, with 5 MHz of contiguous bandwidth. Minimum power output is 5 Watts, with a maximum of 50 Watts. Harris has selected the frequency range of 1755-1850 MHz for this facet of the testing and future demonstrations.

All lower echelon data will be redistributed using our High Capacity Line of Sight radios, which have a tunable range of 4.5 GHz to 5.8 GHz. This link will require 20 MHz of contiguous bandwidth. Maximum power output is 25 dBm (320 mW). Harris has selected the frequency range of 4.5-4.99 GHz for this facet of the testing and future demonstrations.

Harris acknowledges that all transmissions will be on a non-interference basis and will adhere to any conditions placed Experimental Authorization. Including:

*(1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.*

*(2) Harris Corp. must use the following frequency bands vice the requested bands:*

*a. 230.275 - 231.475 MHz; b. 296.825 - 298.800 MHz; c. 361.650 - 362.850 MHz*

*(3) Harris Corp. must notch out the following frequencies: a. 1814 MHz; b. 1840 MHz*

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.

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<sup>1</sup> Harris was previously authorized for the parameters requested herein under FCC Special Temporary Authority (File No. 1185-EX-ST-2014, WI9XFK)

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

The **stop buzzer contact** for this demonstration is Richard Morisset at Harris, tel: (954)512-1714, e-mail [rmorisse@harris.com](mailto:rmorisse@harris.com).