

**HARRIS CORPORATION  
EXPERIMENTAL SPECIAL TEMPORARY  
AUTHORITY APPLICATION  
FILE NO. 1185-EX-ST-2014  
JANUARY 2, 2015**

**EXHIBIT I - REQUEST FOR SPECIAL TEMPORARY AUTHORITY**

Harris Corporation ("Harris") hereby requests FCC Special Temporary Authority to conduct testing and customer demonstrations utilizing its Falcon III family of Wideband tactical radios at its Sunrise, Florida location for the period of January 31, 2015 through February 14, 2015.

The demonstration 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. These radios will be demonstrated using three nets, each requiring 1.2 MHz of contiguous bandwidth. Minimum power output is 10 Watts, with a maximum of 50 Watts. Given the frequency usage restrictions in the 225-450 MHz range, Harris has selected three 1.2 MHz channels for the demonstration. Specifically, Harris has selected 229.5-231.725 MHz, 296.825-299.5 MHz, and 361.175-363.050 MHz. These specific ranges had been previously authorized under STA for a similar request and have been selected based on previously requested Special Condition frequency notch outs. In the event the Commission is unable to grant STA on these specific frequencies, Harris requests that it be allowed to adjust the requested frequency ranges for 1.2 MHz of contiguous bandwidth within the frequency range of 225-450 MHz.

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 demonstration.

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 demonstration.

Harris acknowledges that all transmissions will be on a non-interference basis and will adhere to any conditions placed on the Special Temporary Authorization.

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 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).