HARRIS CORPORATION
EXPERIMENTAL STA APPLICATION
FILE NO. 1554-EX-ST-2017

EXHIBIT 1 - DESCRIPTION OF EXPERIMENT

Harris Corporation ("Harris") hereby requests experimental Special Temporary Authority ("STA") to support experimental testing and development of a multi-channel handheld platform unit. The proposed testing will test advancements of existing waveforms as well as new, higher data rate waveforms. The experiment will utilize one base station radio and up to 6 mobile radios sending a combination of voice, data, telephony, and video transmissions. Testing will occur on a fixed/mobile radius surrounding Harris' facility located in Rochester, NY.

Harris is submitting separate STA requests for a number of frequencies in which testing is proposed. Within this request Harris has selected a frequency ranges of 14.4 GHz to 14.83 GHz and 15.15 GHz to 15.35 GHz for the testing proposed herein, and realizes there may be required frequency notch outs within these ranges. If the Commission is unable to authorize the selected frequency ranges (*excluding any identified restricted notch outs*), Harris requests frequency ranges which will allow utilization of the full 60 MHz of requested bandwidth.

All experimental testing will be conducted in conjunction with the development of equipment utilized by US Military forces. Accordingly, the applicable POC/Contract information is provided below.

Applicable Government Contract(s) and POC:
Mr. Arthur Coon
APM SOF Tactical Communications
USSOCOM HQ
Contract Number: H92222-15-D-0031
Tel: (813) 826-7276
Arthur.Coon@socom.mil

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 STA request is necessary and in the public interest because it will advance national security efforts by contributing and assisting in the further development of communications equipment utilized by the U.S. Armed Forces.

The **stop buzzer contact** for this project is Bruce Murphy, Engineer at Harris, tel: 585-242-4389, mobile: 585-281-9609, e-mail: bmurph05@harris.com.