

HARRIS CORPORATION
EXPERIMENTAL LICENSE APPLICATION
FILE NO. 0141-EX-CN-2018

EXHIBIT I - DESCRIPTION OF EXPERIMENT

Harris Corporation ("Harris") hereby requests an FCC experimental license to conduct experimental interoperability testing and demonstrations of a HF wideband waveform to allow faster data transfer via HF communications.

As noted in a prior experimental license application obtained by Harris under Call Sign WI2XIZ,¹ in collaboration, Harris and Rockwell Collins² are collectively working together to develop new HF standards for Wideband HF and continue to work out interoperability issues between our separate radio systems. This request is similar in nature to that previously obtained by Harris under Call Sign WI2XIZ, however this request has a lower requested bandwidth (48 KHz opposed to 115 KHz), a lower power (1.0 kW opposed to 1.5 kW), and this filing requests authorization for experimental testing in the United States and possessions to accommodate additional testing requirements.

The requested authorization will also help provide real time testing based on current conditions associated with different locations throughout the United States and possessions and will facilitate short notice testing on the selected frequencies for on air live demos to multiple DOD organizations that request short term demonstrations to their leadership. Such requests are often received on extremely short notice with expedited operational schedules. Due to the nature of the testing and demonstrations a two year authorization will allow Harris to efficiently conduct testing and customer demonstrations, thus facilitating its ability to meet the needs of its DOD customers.

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 acknowledges that all experimental operations conducted in the requested bands will be on a non-interference basis. However, to the extent necessary, Harris will utilize its best efforts to avoid and minimize any potential interference.

Harris submits that a grant of an experimental license is necessary and in the public interest because it will 1) advance HF wideband waveform development and standards 2) it will advance national security efforts by providing technologically advanced radio equipment to DOD organizations.

The **stop buzzer contact** for this project is Marcelo De Risio at Harris, tel: (585) 241-8416, mobile: (585) 978-0754, e-mail: MDeRisio@harris.com

¹ See File #0292-EX-PL-2016

² See Rockwell Collins experimental authorization KM2XLB