

**HARRIS CORPORATION
EXPERIMENTAL LICENSE APPLICATION
FILE NO. 0055-EX-PL-2009
FEBRUARY 2009**

EXHIBIT I

DESCRIPTION OF EXPERIMENT

Harris Corporation ("Harris") hereby requests an FCC experimental authorization license to conduct experimental testing of the equipment identified herein in an effort to develop a new family of radio communications equipment for use by Military, Government, and Public Safety organizations (both US and Allies). Customers in these organizations, particularly in our military forces, have expressed dire needs for communication systems that exhibit high performance at a price significantly lower than that which is provided by technologies currently available for use in these environments. This equipment that is planned for development will be based on the emerging Wireless Metropolitan Area Network (MAN) technology that is standardized in the IEEE 802.16-2004 and 802.16e-2005 standards, with implementations certified by the WiMAX forum.

Harris is currently conducting limited experimental testing of this equipment pursuant to Special Temporary Authority ("STA") granted on July 13, 2008 (Call Sign: WD9XKT; File No. 0300-EX-ST-2008). An extension of this STA was filed with the Commission on January 8, 2009 under FCC File No. 0010-EX-ST-2009. Owing to delays in procuring some of the selected equipment necessary to implement full testing as it relates to this experiment, Harris does not believe that testing as previously authorized by STA would be completed within the next six months. Therefore, in conjunction with a request by Commission staff, Harris is hereby submitting this instant FCC Form 442 Experimental License application. Harris hereby requests that the STA extension request as filed on January 8, 2009 under File No. 0010-EX-ST-2009 be granted so that this critical experimental testing may continue under FCC authority during the pendency of this regular experimental license application.

Harris proposes to use the commercially-available equipment identified herein, which has features similar to the intended product, and to perform tests to evaluate its performance characteristics. The purpose of the test program is to aid in the establishment of product requirements and features to be incorporated into the planned product offering. Currently available products are designed to operate in domestic or international licensed bands. Although the identified equipment closely matches anticipated product characteristics, a design modification will be required in a future final product design phase to change the operating frequency band.

Given the low ERP proposed herein, Harris believes that no harmful interference to incumbent licensees will occur and Harris acknowledges that its operations will be on a non-interference basis. However, to the extent necessary Harris will use its best efforts to avoid and minimize interference.

Harris understands that the Special Conditions as granted in the original STA will be applicable to the permanent authorization, namely, that operation requires consent of affected existing Educational Broadband Service/Broadband Radio Service (EBS/BRS) licensees.

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.

The **stop buzzer contact** for this project is Edward W. Jackson, Systems Engineer at Harris, tel: (585) 242-3308, mobile: (716) 870-9423, e-mail: edward.jackson@harris.com

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