

**HARRIS CORPORATION
EXPERIMENTAL SPECIAL TEMPORARY
AUTHORITY APPLICATION
FILE NO. 0165-EX-ST-2007
APRIL 2007**

**EXHIBIT I
DESCRIPTION OF EXPERIMENT**

Consolidated Response to Questions 4 and 5.

Harris Corporation ("Harris") hereby requests Special Temporary Authority ("STA") to conduct experimental testing utilizing the commercially-available equipment identified herein, in order to develop a new family of radio communications equipment for use by military, government, and public safety organizations, 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 customers in these organizations, particularly in the United States military, 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.

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. Therefore, this STA application will not lead to an application for permanent operation in the identified band.

As shown in the attached document, a review of the Commission's database indicates that there are no licensed operations in the 3407-3599 MHz band within a 10 kilometer radius of the proposed operations. Therefore, Harris believes that the potential for interference will be minimal. Nonetheless, Harris acknowledges that its operations will be on a non-interference basis.

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 an experimental STA is necessary and in the public interest because it will advance national security efforts.