

**HARRIS CORPORATION  
EXPERIMENTAL STA APPLICATION  
FILE NO. 0022-EX-ST-2011  
JANUARY 2011**

**DESCRIPTION OF EXPERIMENT & REQUEST FOR EXPEDITED  
PROCESSING**

Consolidated Response to Questions 4 and 5.

Harris Corporation ("Harris") hereby requests Special Temporary Authority ("STA") to conduct experimental engineering field testing utilizing its Software Defined Radio ("SDR") equipment. The testing will verify capabilities of the radios ultimately deployed to US Department of Defense troops abroad on assignments in theater. The field tests will exercise Harris radios at low power, on the specified frequencies, in order to verify radio line-of-sight communication at distances of a few kilometers in the real-world environment. This test environment provides engineers with data that cannot be obtained in the interference-free setting of a laboratory, and expedites the delivery of the radio product to the warfighter by providing such data from a setting in close proximity to Harris laboratories. Conducting such tests close to home provides Harris engineers with high confidence that the product is ready for more stressful and expensive testing at Army test ranges.

The proposed testing will be done in association with contract number H92222-10-D-0015, Order No. 25 with the U.S. Special Operations Command ("USSOCOM").

Pursuant to guidance from Commission staff within the Office of Engineering and Technology Experimental Licensing Branch, Harris proposes to utilize the frequencies and parameters as previously authorized under experimental authorization WE2XSC (File No. 0373-EX-PL-2007)<sup>1</sup>. This STA request also incorporates an additional emission designator to reflect a reduced bandwidth required for this testing, as well as adding an additional SDR product to be used in the testing. Harris is requesting expedited Commission action on this experimental STA request. The projected operating start date of the testing has been entered as January 31, 2011 given the urgent nature of this request. If the Commission is unable to process this STA request by that date, Harris respectfully requests that the Commission act on the application as promptly as it can so the requested testing may begin.

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 interference. 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.

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<sup>1</sup> Experimental authorization WE2XSC was scheduled to expire effective January 1, 2011, however an experimental license renewal application was filed with the Commission on December 7, 2010 (File No. 0341-EX-RR-2010). This request remains pending.

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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.

Harris submits that a grant of this STA request is necessary and in the public interest because it will advance national security efforts by facilitating delivery of technologically advanced radio equipment to deployed US Department of Defense troops abroad on assignments in theater.

The stop buzzer contact for this project is John Vendely of Harris, mobile: 321-298-1997, e-mail: [jvendely@harris.com](mailto:jvendely@harris.com)

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**Request for Expedited Processing, File No. 0022-EX-ST-2011**

Harris Corporation hereby requests that the above-captioned application be processed on an expedited basis. As previously noted, the testing will verify capabilities of the SDR radios ultimately deployed to US Department of Defense troops abroad on assignments in theater. The testing is necessary to facilitate an order with the U.S. Special Operations Command under contract number H92222-10-D-0015, Order No. 25.

Because the result of the proposed testing has direct implications on the ultimate delivery of technologically advanced radio equipment to US Department of Defense warfighters, and involves the safety and security of US forces, expedited processing of the this request is a matter of serious national security.