HARRIS CORPORATION
EXPERIMENTAL STA APPLICATION
FILE NO. 0297-EX-ST-2011
MAY 2011

REQUEST FOR STA

Harris Corporation ("Harris") hereby requests Special Temporary Authority ("STA") to conduct an experimental customer demonstration at the Muscatatuck Urban Training Center located in Butlerville, Indiana from May 15, 2011 to May 20, 2011. The experiment will demonstrate to customers at the demonstration event the capability of the system for assisting in alignment of the RF-7800W system between air and ground communications.

The experimental demonstration will utilize a UHF GPS transponder to relay GPS position data from an aircraft overhead to a stationary van below, which houses the RF-7800W Antenna Tracking System. The aircraft will relay its current GPS position to the receiver at the ground station, once per second. The antenna tracking system uses that information to assist in acquiring and positioning the RF-7800W antenna to maintain a High-Capacity line of sight RF link to the aircraft.

Harris acknowledges that all experimental demonstrations 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 demonstration purposes and not for the purpose of providing network data communications services to user stations.

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 allow Harris to demonstrate its RF-7800W Antenna Tracking System to law enforcement officials and first responders at the National Level Exercise 2011.

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