

**HARRIS CORPORATION
EXPERIMENTAL STA APPLICATION
FILE NO. 0890-EX-ST-2015**

EXHIBIT 1 - REQUEST FOR SPECIAL TEMPORARY AUTHORITY

Harris Corporation ("Harris") hereby requests Special Temporary Authority ("STA") to conduct mobile testing of an aircraft data telecommunications system utilizing the VHF frequencies¹ contained herein. Testing will be conducted within a 2 kilometer radius each of four locations- Palm Bay, FL (28 01'44"N, 80 35'53"W), Malabar, FL (27 58'37"N, 80 33'21"W, Frostproof, FL (27 47'21"N, 81 35'54"W), and Linden, FL (28 33'49"N, 82 01'27"W). Harris has listed a requested start date of August 31, 2015 within this STA request. If the Commission is unable to process this request by that date, Harris respectfully requests that the STA be processed at the Commission's earliest convenience and not be dismissed without prejudice. Harris will adjust its testing schedule to coincide with FCC approval.

At each of the four locations identified above, hand-held and/or vehicle-mounted mobile transceivers will be utilized to communicate with either a rotary-wing or fixed-wing aircraft during testing of a separate air-to-ground communications system. Usage will occur at locations either individually or in parallel as the test aircraft transits from one location to another. Usage will be at infrequent intervals as development occurs on the separate air-to-ground communications system and new features are tested.

The hand-held mobile units (3) will operate at maximum of 5 Watts P.E.P. The vehicle-mounted units (2) will operate at a maximum of 36 Watts P.E.P.

Harris believes that no harmful interference will occur resulting from usage of the requested frequencies. However, to the extent necessary Harris will use its best efforts to avoid and minimize any potential interference. Harris further recognizes that if any interference to existing licensed stations occurs, any transmissions will be subject to immediate shut down.

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 this experimental STA is necessary and in the public interest because it will facilitate implementation of an aircraft data telecommunications system.

The **stop buzzer contact** for this project is David Pope at Harris, tel: (321) 309-2373, mobile: (321) 917-2381, e-mail: david.pope@harris.com

¹ Harris is currently in the process of coordinating the requested frequencies with AFTRCC.