

**HARRIS CORPORATION
EXPERIMENTAL STA APPLICATION
FILE NO. 0278-EX-ST-2015
March 2015**

Exhibit 1 - Request for Special Temporary Authority

Harris Corporation ("Harris") hereby requests short term experimental Special Temporary Authority ("STA") to conduct on site testing and demonstrations with the United States Coast Guard ("USCG") in Buffalo, New York for a period ranging from March 24 through April 10, 2015. Harris realizes that the initial start date of the requested STA is two weeks away and hereby requests that if the Commission is unable to grant the STA by the requested start date of March 24, 2015 it continue processing this filing in hopes to have FCC authorization prior to the end date of April 10, 2015.

The demonstration will utilize the Harris RF-330E-TR Wideband Team Radio and will involve voice relay proof of concept for USCG boarding teams on a retired Naval Vessel located on the coast of Lake Erie in Buffalo, NY (Coordinates: 42°52'39.28" N 78°52'51.02 W).

Harris requests authority to utilize a single UHF frequency in the 225.0 to 448.0 MHz range with 1.2 MHz of contiguous bandwidth. Harris has populated the frequency of 362.25 MHz within the STA based on previous FCC experimental authorizations. In the event the Commission is unable to grant STA on this specific frequency, Harris requests the ability to select another single open frequency between 225.0 – 448.0 MHz to utilize for the short term demonstration.

Harris acknowledges that all transmissions will be on a non-interference basis and will adhere to any conditions placed on the Special Temporary Authorization.

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 application is necessary and in the public interest.

The **stop buzzer contact** for this demonstration is Josh Miller at Harris, tel: (585)259-1488, e-mail jmille76@harris.com



WIDEBAND NETWORKING TEAM RADIO

RF-330E-TR001

FEATURES

- Suite B, Secret and Below, non-CCI security architecture
- Meets and exceeds Rifleman Radio and Nett Warrior operational requirements
- Market-leading 24-hour mission weight (< 3 lbs)
- Market-leading battery life supports missions over 24 hours with one spare battery
- Market-leading point-to-point range
- OLED display provides visual confirmation of vital radio status without external device
- Harris' single Tri-band antenna addresses full SRW spectrum requirements
- Uses currently fielded batteries and charging systems
- Provides user Situational Awareness (SA); with Position Location Information (PLI)
- Software programmable security architecture

The RF-330E-TR Wideband Team Radio is a small, tactical team radio, NSA certified for Type 1 Suite B, Secret and Below encryption in a non-CCI package. Designed to exceed Rifleman Radio and Nett Warrior operational requirements for range, battery life and mission weight, the RF-330E-TR provides simultaneous voice, high-speed data and up-to-date position location information, enhancing situational awareness and ensuring the individual war fighter is always connected and never alone.

As a member of the Harris Falcon III® family of tactical handheld radios, the RF-330E-TR utilizes the same menu structure and widely- fielded battery and charging systems as the Falcon III HH family of radios. Compatibility with a fielded battery form factor and well known menu structure greatly eases the logistical burden of fielding and training for a new radio system. Additionally, the innovative design of the RF-330E-TR optimizes power consumption, offering unparalleled battery life capable of supporting missions well in excess of 24 hours with only a single spare battery, minimizing the total weight carried into the field.

The RF-330E-TR hosts the SRW networking waveform and features a Software Communications Architecture (SCA v2.2.2) operating environment, enabling software upgradeability as well as hosting additional software defined waveforms.

The compact size and advanced capabilities of the RF-330E-TR provide a means to allow seamless voice and data capabilities for every team member, enabling today's war fighter to take on tomorrow's missions.



SPECIFICATIONS FOR: RF-330E-TR001

GENERAL

Frequency Range	Tri-band antenna optimized for: 225-450 MHz, 1250-1390 MHz and 1755-1850 MHz
Power Out	Selectable up to 3.2W
Bandwidth	Supports SRW 1.2 MHz channel spacing
Displaced Volume	33.5 cubic inches with battery and antennas
Weight	2 lbs with battery and antenna
Waveforms	SRW software upgradeable to support additional / future waveforms
Type-1 Secret and Below (non-CCI)	SW programmable Security architecture Suite B
Power Input	Nominal 10.8 VDC (Falcon III HH radio family interface)
Battery	Interfaces with currently fielded inventories of Falcon III HH batteries and chargers (Falcon III HH radio family)
Battery Life	Unparalleled battery life capable of supporting missions well in excess of 24 hours with only a single spare battery
Net Presets	Storage for up to 99 programmable presets
GPS	Internal GPS standard External SAASM interface (DAGR/PLGR)
SW Environment	SCA v2.2.2

ENVIRONMENTAL

Environmental	MIL-STD-810G
Operating Temperature	-30C to +55C
Storage Temperature	-51.1C to +71C
Immersion	2 Meters
EMI / RFI	MIL-STD-461F (including CE106 Compliance)

INTERFACE

RF Antenna	Single TNC connector
Audio	Supports interoperability with standard 6-pin ADF interface
Key Fill	DS-101
Mode/Presets switch	(Off/Zeroize/Load) Access to 11 programmable presets
OLED Display (HMI)	Immediate visual confirmation of R/T status: Battery gauge Net connection status Preset number and label Indication of loaded key material
Utility Access (HMI)	User friendly access to menu driven radio utilities without requiring an external device



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