

Subject: Application for FCC Special Temporary Authority

Date: 6 February 2019

Dear Sirs:

Intrepid Networks, LLC respectfully requests a Special Temporary Authority (STA) to operate a prototype communication system on selected channels in the band listed below (under Technical Specifications) for the purpose of testing and evaluating the performance and reliability of prototype equipment and associated software design to support innovative communications capabilities. The type of STA being requested is for a temporary, non-recurring service for a period of five months, beginning 20 February 2019.

Intrepid Networks proposes initially to operate a limited number of low power mobile units both indoors and outdoors at and around its facilities in Orlando, Florida as well as at a test event sponsored by the US Government Department of Defense (DoD) in April 2019 in Norfolk, Virginia. Intrepid Networks has been invited to participate in this DoD / US Special Operations Command test event in order to perform rigorous testing and evaluation as part of the product development process. As such, Intrepid is requesting a five month authorization to support testing and evaluation, seeking to collect sufficient data within that time frame to assess the performance and reliability characteristics of prototype equipment and software and determine if additional research and development is required.

Intrepid Networks does not seek to conduct marketing or provide communications services under the requested experimental authority. Throughout the period of this STA, Intrepid Networks LLC will: (1) ensure full responsibility for the experimental activities and devices; and (b) ensure all operations are conducted on a non-interference basis; and (c) adhere to any specifications and conditions stipulated by the FCC.

Technical Specifications:

1. **Device Description:** The communication device being developed is a small (3.5"x5"x2") communications device with an embedded GPS receiver that transmits/receives low data rate, brief messages that include position location and short text messages.
2. **Frequencies Desired and Effective Radiated Power:** Intrepid Networks proposes to test and evaluate equipment that will operate in the 902 MHz – 928 MHz band.

Intrepid networks does not plan to operate continuously in all of the bands or operate on all channels within this band. A limited number of channels would be used within this specified band, and Intrepid Networks will change channels when necessary to avoid interference. In the event that it receives a complaint of interference resulting from the proposed operation, Intrepid Networks will take immediate action to address the interference, include if necessary discontinuing operations.

As well, Intrepid Networks does not expect harmful interference to occur, as the proposed operations will be limited in scope. The maximum power levels of the operations will be limited to 1 Watt ERP (max). Any outdoor testing will be limited to a 5km operational area.

3. **Modulation and Emissions:** The primary emission designator for the test operations are 21K0F1D and 180KF1D.
4. **Equipment to be used:**
 - a. **Equipment Type:** Prototype Equipment
 - b. **Manufacturer:** TBD
 - c. **(Max) Number of Mobile Units in operation at any given time:** 12
5. **Antenna Information:** Intrepid Networks may wish to evaluate a variety of antennas and orientations. Any antennas will be installed in accordance with FCC rules and regulations.

Intrepid Networks very much appreciates the FCC's consideration of this STA application that would enable the testing and evaluation of reliability of prototype equipment and software. For questions about this application, my contact information is as follows:

Annita Nerses
(407) 912-3403
annitanerses@intrepid-networks.com
1011 East Colonial Drive, Suite 501
Orlando, FL 32803

Thank you very much for your consideration of this application.

Sincerely,

A handwritten signature in black ink, appearing to read "Annita Nerses".

Annita Nerses
Vice President
Intrepid Networks