



METAROS TRADING COMPANY  
5266 LAURINBURG RD  
RAEFORD, NC 28376

4 May 2021

**TO:**  
FEDERAL COMMUNICATIONS COMMISSION  
45 L STREET NE  
WASHINGTON, DC 20554

**SUBJECT: Form 442 New License/Modification of License for Research Project**

**1) Nature of Research Project.** Develop novel low power (below 5 watts) communications nodes capable of beyond line of sight (BLOS) connectivity using existing, commercial off-the-shelf technology for testing purposes. Developments made in this bandwidth are intended to serve as a proof of concept for greater investment by other interested commercial or government agencies that require a low cost, low power, long distance, reliable form of emergency communication.

**2) Project Objectives.**

- a. Long distance digital text and message file communication (>100km)
- b. Capable of error correction / message verification
- c. Digital mode organic to transceiver (SDR programming, external soundcard built into transceiver)
- d. unproto speeds of 150 wpm under adverse conditions

**3) Justification.** In order to prevent adverse effects on amateur bands, we are requesting bandwidth that falls within the private land mobile frequency allocation (13.87mHZ - 14mHZ). We recognize the importance of the 20m band as the magic band for worldwide amateur communications. For our purposes, we desire to test our equipment and concepts close to this effective frequency range.

**4) Description of Operation.** For this experimental license, we intend to operate using the frequency allocation of 13.87 mHZ to 14 mHZ, according to 47 CFR § 2.106 - Table of Frequency Allocations. This allocation falls within the Private Land Mobile Service governed by 47 C.F.R, Part 90.266 (Long distance communications on frequencies below 25 MHz). We intend to operate under these rules and regulations. While testing, the fixed station located at 5266 Laurinburg Road, Raeford, NC 28376 will remain in place and the mobile station will not exceed a 100km radius from this location.

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