Byron Stanley, 444 Somerville Ave, Somerville, MA 02143

**United States of America**
**FEDERAL COMMUNICATIONS COMMISSION**
**EXPERIMENTAL**
**SPECIAL TEMPORARY AUTHORIZATION**

| | |
|---|---|
| EXPERIMENTAL | WN9XAP |
| (Nature of Service) | (Call Sign) |
| XT MO | 1593-EX-ST-2018 |
| (Class of Station) | (File Number) |

NAME WaveSense

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:
This operation will focus on testing and developing the first FCC part 15 compliant variant of the Localizing GPR system.

Station Locations
(1) MOBILE: Cambridge, MA, within 100 km, centered around NL 42-21-33; WL 71-06-53

Frequency Information

MOBILE: Cambridge, MA, within 100 km, centered around NL 42-21-33; WL 71-06-53

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---|---|---|---|---|
| 100-108 MHz | MO | N0N | 400 uW (ERP) | 0.0001 % |
| 139-325 MHz | MO | N0N | 400 uW (ERP) | 0.0001 % |
| 337-400 MHz | MO | N0N | 400 uW (ERP) | 0.0001 % |

This authorization effective January 21, 2019 and
will expire 3:00 A.M. EST July 21, 2019

**FEDERAL COMMUNICATIONS COMMISSION**

Special Conditions:

(1) WaveSense Inc. must notch out the following frequencies (+/- 12.5 kHz):

150.725 MHz, 154.190 MHz, 156.300 MHz, 156.525 MHz, 156.600 MHz, 156.650 MHz, 156.700 MHz, 156.800 MHz, 157.050 MHz, 157.075 MHz, 157.100 MHz, 157.150 MHz, 157.175 MHz, 161.975 MHz, 162.050 MHz, 162.125 MHz, 162.250 MHz, 163.1375 MHz, 164.150 MHz, 164.300 MHz, 164.550 MHz, 164.900 MHz, 164.9375 MHz, 165.075 MHz, 165.2625 MHz, 165.275 MHz, 165.325 MHz, 165.3375 MHz, 165.7625 MHz, 166.1875 MHz, 166.225 MHz, 166.4625 MHz, 166.7625 MHz, 167.1125 MHz, 167.300 MHz, 167.900 MHz, 168.2625 MHz, 168.2875 MHz, 168.650 MHz, 168.675 MHz, 168.6875 MHz, 169.175 MHz, 170.450 MHz, 170.750 MHz, 171.2125 MHz, 171.2375 MHz, 171.3375 MHz, 171.350 MHz, 171.3625 MHz, 171.500 MHz, 171.525 MHz, 172.250 MHz, 172.350 MHz, 237.900 MHz, 243.000 MHz.

(2) WaveSense must also notch out (+/- 12.5 kHz): 162.700 MHz, 163.7125 MHz, 164.450 MHz, 165.4125 MHz, 165.6625 MHz, 165.7250 MHz, 166.2625 MHz, 167.9625 MHz, 168.2375 MHz, 168.6125 MHz, and 169.100 MHz.

(3) WaveSense should be aware that due to the concentration of Federal users in the area and the operational parameters of those users it is possible that they may experience interference.

(4) WaveSense should have no expectations that this system will be approved for operational use in Federal or Maritime bands based upon concurrence with this testing.