

## Exhibit 1

### Experimental Description:

#### Experimental RNSS Test Equipment for the purpose of testing GPS receivers

TrellisWare Technologies, Inc. ("TrellisWare") designs, integrates, and manufactures radio systems for both commercial and military applications. Many of these radios incorporate a GPS receiver – both to provide timing and synchronization, as well as to provide position location information about the users of the radio system.

TrellisWare is respectfully requesting permission to re-radiate GPS signals to provide GPS coverage within TrellisWare's laboratory and production areas. Providing a re-radiated GPS signal within TrellisWare's laboratory and production areas will allow TrellisWare to test radio systems under conditions more representative of real-world use cases.

### Compliance with Section 8.3.28 of the NTIA Manual:

#### Use of Fixed Devices That Re-Radiate Signals Received From the Global Positioning System

1. Individual authorization is for indoor use only, and is required for each device at a specific site.

TrellisWare understands that the authorization is for indoor use only. TrellisWare respectfully requests authorization for up to 5 rebroadcast antennas, to cover each of TrellisWare's laboratory and manufacturing spaces.

2. Applications for frequency assignment should be applied for as an XT station class with a note indicating the device is to be used as an "Experimental RNSS Test Equipment for the purpose of testing GPS receivers" and describing how the device will be used.

Understood

3. Approved applications for frequency assignment will be entered in the GMF.

Understood

4. The maximum length of the assignment will be two years, with possible renewal.

TrellisWare respectfully requests a two year assignment, and will coordinate a renewal if/when it is required.

5. The area of potential interference to GPS reception (e.g., military or contractor facility) has to be under the control of the user.

The area of potential interference is limited to TrellisWare facilities, and is under TrellisWare's control.

6. The maximum equivalent isotropically radiated power (EIRP) must be such that the calculated emissions are no greater than -140 dBm/24 MHz as received by an isotropic antenna at a distance of 100 feet (30 meters) from the building where the test is being conducted. The calculations showing compliance with this requirement must be provided with the application for frequency assignment and should be based on free space propagation with no allowance for additional attenuation (e.g., building attenuation.)

At 100', the free space path loss at 1.575 GHz is 66 dB. In order to maintain a -140 dBm emission at 100' from the building, TrellisWare will limit the EIRP from each individual antenna to < -81 dBm (accounting for the worst case 7dB impact caused by 5 rebroadcast antennas within the building).

This will be accomplished by using antennas with +3 dBi maximum gain, and a < -84 dBm input power level to the antenna. Power control will be via a GPS Source GLI-METRO controller (or equivalent) to ensure that output power levels are automatically controlled.

This link budget does not include additional allowances for building attenuation, or the additional free space path loss required to propagate from the antenna to the perimeter of the building.

7. GPS users in the area of potential interference to GPS reception must be notified that GPS information may be impacted for periods of time.

TrellisWare has posted signs at the entrance to the areas in which the system is deployed, informing the user of the presence of GPS rebroadcast equipment, and noting that GPS reception may be impacted in those areas.

8. The use is limited to activity for the purpose of testing RNSS equipment/systems.

TrellisWare will use this solely for testing the capabilities of RNSS equipment.

9. A "Stop Buzzer" point of contact for the authorized device must be identified and available at all times during GPS re-radiation operation of the device under any condition.

Jon Penner (858-753-1658) is the "Stop Buzzer" point of contact.