



## FCC Form 442 Experiment Informal Objection

### 1 Introduction

GE (NYSE:GE) is in the process of creating a new era in productivity that we call the "Industrial Internet." True to its name, the Industrial Internet is about connecting industrial machines, infrastructure ecosystems and people at work to the internet in order to derive unprecedented value through analytics, machine automation, and the ability to predict and prevent critical issues. In short, the Industrial Internet is a war on downtime, waste and guesswork within industries. These innovations promise to bring greater speed and efficiency to diverse industries. The Industrial Internet will deliver new efficiency gains, accelerate productivity growth the way the Industrial Revolution and Internet Revolution did. For more information please visit our website: <https://www.ge.com/digital/>

### 2 Test Site Approval

GE has received permission from the Navy to test at the location described below. It has come to our attention that the person whom reviewed our application was apparently not aware permission had already been granted. We request that the application be re reviewed. If not possible, please advise on how to resubmit the application. The test location site will not be changing as we have been assured that the Navy Marine Corps Spectrum Center has already provided approval.

### 3 Transmitter Information

One or two 20 MHz LTE RF channels will be operated within the requested frequency range at any one time.

The maximum EIRP for mobile and fixed sites is listed in Table 1. The fixed sites and small cells also support MIMO and the defined power is with respect to each antenna element.

Table 2 defines the deployment radiuses where all fixed and small cell sites will be located within during the testing.

**Table 1 Transmitter Information**

| Type   | Transmit Frequency (MHz) | EIRP (dBm) | EIRP (W) | ERP (W) | Maximum Transmission Bandwidth (MHz) | Emissions Designator |
|--------|--------------------------|------------|----------|---------|--------------------------------------|----------------------|
| Fixed  | 3550-3650                | 30         | 1        | 0.7     | 20                                   | 20M0W7W              |
| Mobile | 3550-3650                | 23         | 0.2      | 0.33    | 20                                   | 20M0W7W              |

**Table 2 Fixed and Small Cell Transmitter Deployment Radius**

| Location Description                   | Location # | Operational Center Point |             | Fixed Site Location and Mobile Operational Radius |     |
|----------------------------------------|------------|--------------------------|-------------|---------------------------------------------------|-----|
|                                        |            | Lat                      | Long        | Miles                                             | km  |
| 2623 Camino Ramon, San Ramon, CA 94583 | 1          | 37 46 1 N                | 121 57 32 W | 0.25                                              | 0.4 |