

EXHIBIT 1
DESCRIPTION OF THE EXPERIMENT

Rearden LLC seeks to conduct a limited RF propagation, performance study as well as a market demonstration in the 3.5GHz range (using multiple 20MHz and 10MHz blocks for total of 50MHz between 3520 and 3570 that will examine a new digital modulation technique for wireless networks, thereby providing important information for the development of next generation wireless communications applications for the business and consumer markets. Specifically, Rearden will install prototype base stations enabled with proprietary pCell[®] wireless technology at the Dignity Health Sports Park located at 18400 Avalon Blvd, Carson, CA that allows each wireless user at the Dignity Health Sports Park to use the full data rate of shared spectrum simultaneously with all other users, by eliminating interference between users sharing the same spectrum. Rearden will examine network performance, features, and functionality of pCell wireless technology and a suite of customer applications. Testing is required to determine the viability of pCell wireless technology and its ability to support a variety of applications with a high density of concurrent users. In addition, testing is necessary to verify design characteristics and performance in a mixed indoor/outdoor environment with trial users, as well as other technical parameters.

The system is using 56 devices in current experiments at other locations in different RF propagation environments, so it is essential to compare this new propagation environment with at least that number of devices. However, we hope to be able to continue to advance the research with more devices, which is why 100 are requested.

Testing will consist of short-range transmissions at the Dignity Health Sports Park in Carson, CA using indoor and outdoor mounted base station antennas, which have been designed to operate at 3520-3570MHz, and commercial LTE user devices designed to operate at 3520-3570MHz. Transmit power of the base stations will be at most 100mW with 3W ERP and out-of-band emissions will meet 47 C.F.R. Part 27 limits. The base stations will be at fixed indoor and outdoor locations and mounted at elevation up to 15 meters AGL, but below the roof level of the Sports Center with antennas pointing downward. Given the limited transmit power, downward orientation of the antennas and high pathloss of radio waves propagating at 3.5GHz, Rearden expects poor propagation with limited or unmeasurable RF energy being radiated outside the perimeter of the Sports Center.

Some of the system variables to be tested include: range, capacity and customer application preferences. Rearden will conduct testing exclusively at the Dignity Health Sports Center, Carson, California. Access and use of the test network, platform, and applications will be limited to employees or full-time contractors of Rearden and beta testers.

The range of 3520 to 3560 of the proposed spectrum is licensed by DISH Wireless who has given Rearden permission to use the spectrum during the requested period of time for these experiments. The remaining range from 3560 to 3570 is unassigned CBRS band.

The proposed wireless communications experiment and the associated evaluation and/or customization of the above-referenced technology will advance the Commission's spectrum policies to promote innovation, and competition. The proposed experiments and trials have the potential to lead to more efficient and productive utilization of spectrum made available by the Commission for licensed and unlicensed operations.

We confirm and agree to coordinate with an approved SAS for any operation in the CBRS band. Further, we confirm that, consistent with CBRS operation requirements, all of our base stations will operate compatibly with the LTE standard and within the LTE spectrum envelope, synchronized as required for CBRS. Because all of our base stations are operating with the LTE standard, within the LTE spectrum envelope, and are coordinated with an approved SAS, then just like any CBRS LTE base station coordinated with an approved SAS, our base stations will not cause interference to incumbent or commercial operation in the CBRS band, including GAA operation.