

evoDrive FCC Experimental Testing Narrative

The evoDrive mobile collector (FCC ID S28-EVODRIVE) will be used for the collection of water meter data. The evoDrive is placed into a vehicle, interfaced with a laptop pc and GPS and will move along a utilizes route to collect the data information from water meters.

The evoDrive transmits a licensed signal between 952.00625 MHz and 956.44375 MHz that “wakes up” the water meter devices (endpoints). The endpoints then transmit back a signal in the 902-928 MHz ISM band to the evoDrive mobile collector.

The nationwide license grant would allow Elster AMCO Water to demo the product to potential customers. Water utility customers expect a demonstration of an AMR (Automatic Meter Reading) system prior to purchasing the system. This typically involves 1-2 hours of demonstration in a very limited area. Sales members normally have 7-10 days notice in order to get on site to demo the product.

By being granted the national experimental license, Elster AMCO Water will be able to readily demonstrate the abilities of our AMR system to potential utility customers. We are requesting 2 frequencies be granted for nationwide experimental usage. This will allow us to be on site and monitor the channel as well as research the frequency prior to arrival and make sure we will not interfere with another licensed user.

This ability will contribute to the overall proper utilization of the utilities resources, spectrum, and needed transmit arrangement.