April 08, 2009

**Federal Communications Commission**
Authorization and Evaluation Division
7435 Oakland Mills Road
Columbia, MD 21046

Elster Electricity, LLC
208 S Rogers Lane
Raleigh, NC 27610-2144
United States

T +1 919 212 4800
F +1 919 250 5486

www.elster.com

Ref: New Experimental License Request

The purpose of this letter is to request a New Experimental License for a system as described herein.

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|---|---|
| Start Date: | May 25, 2009 |
| Duration: | Two years, with the intention of extending based on test results |
| Spectrum: | 900 MHz FHSS in the 902-928 MHz ISM band (part 15.247) and 2.4 GHz DSSS in the ISM band. |
| Equipment: | Model ILC2 Collector (FCC ID: QZC-ILC2), Model RX2EA Electricity Meter (FCC ID: QZC-RX2EA), Model ILC2 A3 Node (FCC ID: QZC-ILC2), Model 7S1101 Gas Meter (FCC ID: G8JEAGAS01), Model 1C11800 EA Water Meter (FCC ID: QZC-REXWM900, and Smart Grid Infrastructure |

Elster Electricity requests an Experimental License for Apex, North Carolina in order to facilitate RF development efforts associated with advanced Smart Grid applications. The equipment deployed will operate in the 900 MHz ISM band (FHSS) and 2.4 GHz ISM band (DSSS) and will comply with FCC part 15.247 rules.

The system installation will include electric, gas and water meter reading equipment along with future equipment related to load management, demand control and real time pricing. Additional testing may involve monitoring and real time control of the electrical distribution system.

The experimental license will be used to revise installed product firmware using over the air (OTA) protocols to optimize network performance and functional operation. New prototype equipment will potentially be installed for testing advanced Smart Grid functionality prior to the products having received FCC certification. All products tested per this license will be designed to be compliant with part 15.247 rules.

The primary installation for the test license will be in the Walden Woods, Walden Creek subdivision of Apex, NC. This residential subdivision is bounded on the east by highway 55 and on the south by highway 64. There are approximately 650 residential and commercial properties in this area.

Respectfully,

John Holt

John Holt
RF Engineer
Telephone 919-250-5557
e-mail: John.Holt@us.elster.com