

**Written Testimony of Bruce Young**  
**on behalf of Landis+Gyr**  
**Before the Texas Senate Committee on Business & Commerce**  
**October 9, 2012**

Good Morning Committee Members,

My name is Bruce Young. I am the Senior Director of Hardware Development for Landis+Gyr in North America. Landis+Gyr is a global leader in the field of metrology and has been deploying electricity meters around the world for more than 100 years. I am here today to speak about how we develop, certify and test our products, as Landis+Gyr is providing the smart electricity meters and associated communications solutions being installed by both Oncor and AEP Texas.

Landis+Gyr and our customers have deployed over 20 million radio-enabled meters in North America alone. Millions of additional radio-enabled meters are being used in a very similar manner globally, in countries such as Australia.

Landis+Gyr's meters operate in the unlicensed 900 MHz frequency band, the same frequency band used by a wide number of modern consumer devices, including cordless telephones, baby monitors and certain wireless networks. This frequency band, though labeled as unlicensed, is regulated by the Federal Communications Commission or "FCC," which limits output to ensure safety and to minimize interference among the devices that operate in this band.

In fact, the FCC is the federal agency responsible for evaluating and managing radio frequency exposure impacts and dictates the standards that must be followed for design, test and certification of wireless products. The FCC's output limits were set on the basis of recommendations from standards bodies and have been adopted by the American National Standards Institute (ANSI). Landis+Gyr adheres to these guidelines and standards in testing and obtaining certification and verification of our products.

First, as we design our products, we routinely perform in-house testing to ensure that our transmitters comply with the FCC's more stringent Class B, or residential, limits. This means that, among other testing, we require performance verification testing for Intentional radio

transmissions and power-line conducted transmissions. Further we test for other modes of emissions to minimize the chance of interference with any other devices.

After we complete the design and initial internal testing we then obtain FCC certification for the transmitters used in our products. Landis+Gyr does not perform this certification testing internally but rather uses accredited independent testing labs, who have specialized equipment and capabilities and maintain FCC approved processes and procedures for issuing certificates of compliance. These independent certifying laboratories are subject to FCC audits to ensure that they comply with the FCC accreditation requirements.

In each and every case the meters that Landis+Gyr has sold have been certified to have output power levels in accordance with FCC limits and their equivalent generated exposure to RF density have been found to be significantly below the FCC's limits.

As a final note, I also want to clarify that the typical smart meters installed by Oncor and AEP transmit for about 90 seconds on an average day: less time than my statement has taken here today.

In summary, Landis+Gyr designs, tests and certifies the full suite of products to meet or exceed the established FCC standards.

Thank you very much.