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47173 Benicia Street
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18 November 2010

Attention: Application Examiner
 Reviewing Engineer
RE: Class 2 Permissive change to add MPACK antenna coupling configuration
Applicant: **Silver Spring Networks Inc.**
Equipment: Radio module for electric meters
FCC ID: OWS-NIC514
IC: 5975A-NIC514

To whom it may concern,

An external antenna is required for meters in hard-to-reach locations such as meter rooms and metal enclosures.

The Meter Patch Antenna Coupler Kit (MPACK) is a very-low-cost alternative mechanism to connect a meter to an external antenna. The MPACK attaches to the outside of the meter cover, positioned directly over the internal antenna, and captures much of the energy from the network interface card internal antenna and directs it into a coaxial cable which connects to an external antenna. It can be used on any meter where the antenna of the network interface card is sufficiently close to meter cover.

The meter radio module with the referenced FCC ID was installed in four different electric meters:

Meter model i210+	Model Focus
Meter model k2Vc	Model S4e

The meter module was set to produce maximum authorized RF output power at Low, Mid, and High channels. Radiated emissions testing was performed for 3 different antennas:

- 8 dBi omni monopole
- 0 dBi low profile "Puck" antenna
- 8.5 dBic flat panel antenna

Radiated emissions testing was performed to demonstrate that the combination continues to meet spurious emissions requirements. Antenna port conducted receiver spurious emissions were also measured at the MPACK antenna connector.

Data shows all emissions are well below FCC Part 15 and IC RSS-gen and RSS-210 limits.
If you have questions or need further information, please contact the undersigned.

Sincerely,



THOMAS N. COKENIAS
EMC Consultant/Agent for Silver Spring Networks