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29 April 2003

Attention: Mike Kuo

Re: Class 2 permissive change for Part 15 spread spectrum transmitter

Applicant: Robertshaw Controls Company d/b/a Invensys Home Control Systems
FCC ID: QI2-EMSL-200
Date of original grant: 3 September 2002

Dear Mike,

A class 2 permissive change is being requested on the referenced device for the following reasons:

1. The header pins have been turned around so that the transmitter board plugs into the unit in the opposite orientation from what was originally tested (i.e., it's upside down).

Data for radiated emissions to 10fo are presented. Readings are essentially identical when EUT is powered at 110 VAC or 220 VAC.

2. The channel occupancy numbers in the original submission are incorrect. The original submission was sending continuous beacon signals instead of a combination of beacon and data.

Data for correct channel occupancy in 20 seconds are presented with spectrum analyzer photographs.

3. The PLL filter bandwidth was set too high on the original unit, this has been corrected in the current revision. The modulation type and modulation rate is the same, the deviation is the same as before, \pm 20 kHz. The difference now is there is less PLL noise and therefore the occupied bandwidth is lowered. Spectrum analyzer photographs are presented to illustrate the new occupied bandwidth.

If you have questions or need clarification on this matter please don't hesitate to call.

Sincerely,

THOMAS N COKENIAS
Agent for Robershaw Controls Company