To: Randy Clark
From: Jon Mueller (Itron, Inc.)
Date: 9/21/07
Re: Description of changes from ERG-5000-001,002, 003, 004, to ERG-5000-005, 006.

Summary

Itron is the process of rolling out the 100G product line. Currently, we have the first 4 models of endpoints released (p/n's: ERG-5000-001,2,3&4) under FCC ID: EO9100G and IC: 864D-100G. We wish to add the next 2 models in the 100G rollout (p/n's: ERG-5000-005&6) to the family, and use the same FCC and IC identification numbers.

Differences

Like the 40GB product line, the 100G comes in different mechanical packages, in order to attach to different gas meters. In the case of the first 4 models released, the same circuit board is used by all models. In the case of the next 2 models, the layout needs to be modified, due to the required position of the count switch. The mechanical reed switch (count switch) needs to be repositioned due to a difference in where the drive from the meter is located.

Moving the count switch requires moving other circuits and components on the circuit board. This new circuit board is almost identical schematically, to the current circuit board. The count switch moved closer to the center of the board. Doing this required the electrolytic capacitor to move. The RF section and antenna stayed constant. The only thing that changed schematically was 2 capacitor values that match the antenna. The antenna had to be rematched, due to moving the electrolytic capacitor. No changes were made with the intent to enhance RF performance.

For FCC purposes, I wish to address this by means of a Class 2 permissive change. For IC purposes, I wish to add these 2 new part numbers to the 100G family.