



*Electric / Gas / Water*  
Information collection, analysis and application

2111 North Molter Road  
Liberty Lake, Washington 99019  
509.924.9900 Tel  
509.891.3355 Fax  
800.635.5461  
www.itron.com

13 June, 2010

Federal Communications Commission  
7435 Oakland Mills Road  
Columbia, MD 21046

Subject: Request for certification  
FCC:RIC-MLOG02

To whom it may concern:

Itron hereby requests a Permissive Change II for a Automatic Meter Reading Leak Sensor endpoint controller device for utility water systems, FCC ID:RIC-MLOG02. Itron is seeking authorization under Part 15.247.

The MLOG Controller collects data from field-installed MLOG Radio-Loggers that are mounted on water pipes, etc. These are 915MHz unlicensed transceiver devices.

It is part of the MLOG Leak Detection systems that offers a low-cost, standalone intelligent network of sensors that analyze sound patterns in their environment to detect new, evolving and pre-existing water system leaks automatically.

A meter reader uses the MLOG Controller to collect data from a route of sensors in residential and commercial neighborhoods (like meters), then returns to the central office where the collected data is uploaded from the MLOG Controller to a network head end, which analyzes the data and where the water utility can review and determine if action is needed due to detected leaks.

The Permissive Change II is due to a revision of the RF IC device. This new version of the RF\_IC is from the same vendor as the original RF IC and is a direct drop in, pin for pin, with the same functionality and operation for its use in this product and is considered an equivalent part. Please note that the same revision of the RFIC was done for another Itron product; and in the attached KDB response, the FCC indicated that a PCII was acceptable.

Sincerely,

Jay R. Holcomb  
R&D Regulatory and Program Manager  
jay.holcomb@itron.com  
Itron, Inc.

enclosures: reports and exhibits

cc: n/a

## Hunter, Jessina

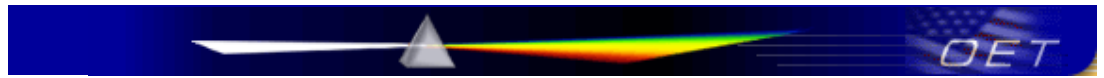
---

**From:** oetech@fccsun27w.fcc.gov  
**Sent:** Friday, August 07, 2009 12:06 PM  
**To:** TCB  
**Subject:** Response to Inquiry to FCC (Tracking Number 448933) (TCB)

**Importance:** High



[FCC Home](#) | [Search](#) | [Updates](#) | [E-Filing](#) | [Initiatives](#) | [For Consumers](#) | [Find People](#)



### Office of Engineering and Technology

#### Inquiry:

---Reply from Customer on 07/31/2009---

Additional information as requested.

- 1) FCC ID of the original application : E0960W
- 2) Photos of the Class II permissive change (C2PC) circuit board :  
Attached
- 3) List of changes in TX components : U2 Chipcon-CC110x was replaced with improved chip, changes: 1) Saturation protection - added attenuation to anti-aliasing filter 2) Modified oscillator buffer for better phase noise 3) Spurious reduction - slight layout changes to charge pump to reduce mismatch, pick-ups, etc. Improved noise isolation to other modules in phase detector. 4) PA power ramp - soft ramp of PA implemented reducing side lobes (splatter). 5) Better ESD protection 6) Reduced leakage current for better battery life

May CKC CS proceed with a class II permissive change for this device?

#### Response:

This modification meets the requirements for an equivalent chip replacement so that a new FCC ID is not required. A new Test Report will have to be included in the Class II permissive change filing.

[Photos of the Class II permissive change C2PC circuit board](#)

[Photos of the Class II permissive change C2PC circuit board](#)

Do not reply to this message. Please select the [Reply to an Inquiry Response](#) link from the OET Inquiry System to add any additional information pertaining to this inquiry.