

Electrical Distribution Safety

DISTRIBUTION COMPANY AWARENESS

This Bulletin provides information for Local Distribution Companies' Energy Conservation Department and replaces Bulletin DB-07-14. It is recommended the copies be destroyed and replace with this bulletin.



With the saveONenergy initiative, the Independent Electricity System Operator (IESO) offers incentives to replace inefficient lighting with more energy efficient sources of lighting. Options available may include replacing the luminaire or retrofitting the existing luminaire. Both options have always required an application for inspection by ESA based on the Ontario Electrical Safety Code (OESC) *Rule 2-004 Inspection*.

In addition, OESC *Rule 2-024 Approval of electrical equipment* provides requirements that all electrical equipment, within the OESC scope, is to be approved and marked. When a luminaire is retrofitted, it is no longer approved. Furthermore, electrical equipment shall not be used for any purpose or in any manner which it is not intended. The Program for Acceptance of Retrofitted Luminaires developed by ESA is supported by requirements of OESC Rule 2-106(5): *"When installed electrical equipment is retrofitted with a retrofit kit and the installation conforms to the requirements of the inspection department, the equipment is deemed to be approved."*

Retrofitted luminaire: A luminaire that is being modified or altered from its original approved configuration with a retrofit assembly. The process of retrofitting may also involve relocation, removal or replacement of luminaire components such as lamp holders, reflectors and ballasts/power supply. A luminaire is not considered to be retrofitted when the only change is a lamp replacement.

The original Program that was in effect on November 25, 2014 has been updated and was put into effect on October 13, 2016. Changes include the following:

- The Retrofitted Luminaires Application for Inspection Form has been simplified.
- T12 to T8 ballast replacements are now part of the Acceptance of Retrofitted Luminaires Program and must be filed on the Retrofitted Luminaires application
- The Certificate of Inspection for a retrofitted luminaires installation has been revised to include a statement that the installation is compliant with the requirements of ESA's Acceptance of Retrofitted Luminaires Program. The Certificate of Inspection explains:
"The retrofitted luminaires at this address are deemed to be compliant with the requirements of ESA's Program for Retrofitted Luminaires. The program includes LED retrofits for fluorescent, incandescent and HID luminaires; LED retrofits for commercial refrigerators; LED retrofits for roadway or post-top luminaires; and fluorescent retrofits for tubular fluorescent luminaires. The Program does not include lamp replacements where application for inspection is not required; or luminaire replacements where a standard application for inspection is required for the wiring of the new luminaires. For more details about the Program, visit <http://www.esasafe.com/business/retrofitted-luminaires>."

ADDITIONAL INFORMATION

Information requests and follow-up may be directed to ESA at Utility.Regulations@ElectricalSafety.on.ca. For questions on this bulletin please be prepared to quote Bulletin "DB-08/16".