

General Service LED and Small Diameter Directional Lamps

REGULATORY PROPOSAL

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B.C. MINISTRY OF ENERGY, MINES AND PETROLEUM RESOURCES
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PROPOSED CHANGES TO THE GENERAL SERVICE LED LAMP STANDARD

TYPE OF DEVICE	<p>“General Service LED lamp” means a lamp that provides functional illumination, is screw based and has:</p> <ul style="list-style-type: none"> a. a luminous flux of at least 310 lm but not more than 2,600 lm; b. a nominal voltage of at least 110 volts but not more than 130 volts, or a nominal voltage range that lies at least partially between those voltages; and c. a light source that comes from light-emitting diodes (LED); <p>but does not include a lamp described in any of paragraphs (a), (c) to (h), (k) to (o) or (q) of the definition of “general service lamp” in Section 433 (1) of the federal Energy Efficiency Regulations.</p>
ENERGY PERFORMANCE STANDARD (PROPOSED CHANGE)	The proposed change will exempt General Service LED lamps from the requirements of an energy performance standard.
TEST STANDARD (PROPOSED CHANGE)	The proposed change will exempt General Service LED lamps from testing requirements.
CERTIFICATION (PROPOSED CHANGE)	The proposed change will exempt General Service LED lamps from verification requirements.
LABELLING (PROPOSED CHANGE)	The proposed change will exempt General Service LED lamps from labelling requirements.
EFFECTIVE DATE	The proposed effective date is January 1, 2020.
HARMONIZATION	The proposed updates are harmonized with Provincial regulations in Ontario and Quebec.
NEED FOR REGULATION	The Ministry of Energy, Mines and Petroleum Resources (Ministry) periodically reviews existing standards and proposes changes to reduce regulatory burden where possible. The proposed change will reduce regulatory burden.
TRANSPARENT REGULATION DEVELOPMENT	<p>Development of the proposed General Service LED update proceeded as follows:</p> <ul style="list-style-type: none"> • Review of provincial climate and energy plans; • Market, economic and technical analysis; and • Development of a regulatory proposal. <p>Public review and stakeholder consultation will be open for [45 days] after the publication of this document. Stakeholder consultation will be followed by regulatory drafting and submission of the regulatory proposal to Cabinet for approval.</p>

ACCEPTANCE	LED technology has improved such that high cost, poor colour rendering index, rated life and incompatibility with dimmers are no longer major concerns. The proposed change is not expected to impact market acceptance of general service LED lamps.
MARKET TRANSFORMATION	BC Hydro has provided consumer rebates for General Service LED lamps at retailers twice a year since the early 2000's, discounting retail prices by approximately 25%.
AVAILABILITY	General Service LED lamps are widely available. As of 2016, LEDs and CFLs accounted for over two thirds of shelf-space dedicated to general service lamps in B.C.
IMPACT ON THE PROVINCE	Most General Service LED lamps meet regulated energy performance requirements in B.C. Exemption of the energy performance standard is not expected to impact the Province's energy conservation targets.
IMPACT ON CONSUMERS	The proposed change will further increase availability of General Service LED products in B.C.
IMPACT ON MANUFACTURERS AND RETAILERS	The proposed changes will reduce the certification burden on General Service Lamp manufacturers and distributors.

PROPOSED CHANGES TO THE SMALL DIAMETER DIRECTIONAL LAMP STANDARD

TYPE OF DEVICE (PROPOSED CHANGE)	<p>The proposed change will exclude LED lamps from the Small Diameter Directional Lamp definition. Excluded lamps will not need to meet regulatory requirements for energy performance, testing or certification. The proposed update to the definition is as follows:</p> <p>"Small Diameter Directional Lamp" means a lamp that is non-tubular and has:</p> <ol style="list-style-type: none"> a diameter of not more than 57 mm; at least 80% of light output within a solid angle of π steradians; a base type of E26, G4, GU5.3, GU10 or GX5.3; a luminous flux of more than 150 lm; and is designed to operate at voltages between 11 to 13 volts and 110 to 130 volts; <p>but does not include:</p> <ol style="list-style-type: none"> a multifaceted reflector shape lamp that has a first number symbol equal to 16; a nominal input voltage of 12 volts; and a luminous flux of 800 lm or more; a reflector lamp that has a first number symbol less than 16, and does not have a screw base type of E26/E24, E26d, E26/50x39, E26/53x39, E29/28, E29/53x39, E39, E39d, EP39 or EX39; a multifaceted reflector shape lamp that is designed and marketed for a specialty application that has a rated life of not more than 300 hours; and lamps that use light emitting diode technology.
EFFECTIVE DATE	The effective date is January 1, 2020.

HARMONIZATION	The proposed change to the standard aligns with US Department of Energy (DOE) lighting standards.
NEED FOR REGULATION	The Ministry periodically reviews existing standards and proposes changes to reduce regulatory burden where possible. The proposed change will reduce regulatory burden.
TRANSPARENT REGULATION DEVELOPMENT	<p>Development of the Small Diameter Directional lamp proposal proceeded as follows:</p> <ul style="list-style-type: none"> • Review of provincial climate and energy policies; • Market, economic and technical analysis; and • Development of a regulatory proposal. <p>Public review and stakeholder consultation will be open for [45 days] after the publication of this document. Stakeholder consultation will be followed by regulatory drafting and submission of the regulatory proposal to Cabinet for approval.</p>
ACCEPTANCE	LED technology has improved such that high cost, poor colour rendering index, rated life and incompatibility with dimmers are no longer major concerns. The proposed change is not expected to impact market acceptance of general service LED lamps.
MARKET TRANSFORMATION	Market transformation for Small Diameter Directional LED lamps has occurred in the absence of specific demand-side management programs.
AVAILABILITY	The proposed change will ensure wide availability of Small Diameter Directional LED lamps in B.C.
IMPACT ON THE PROVINCE	The proposed change will not impact forecast energy savings for the standard.
IMPACT ON CONSUMERS	The proposed change will increase availability of Small Diameter Directional LED lamps in B.C.
IMPACT ON MANUFACTURERS AND RETAILERS	The proposed change will minimize regulatory burden for Small Diameter Directional LED lamp manufacturers.

NOTES

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