

From: Robert Dick <email address removed>
Sent: June 22, 2016 5:14 PM
To: EA Review / Examen EE (CEAA)
Cc: <email address removed>
Subject: Environmental Protection from Light Pollution

Dear Sir or Madame,

Over the past 15-years there has been mounting evidence that artificial light at night (ALAN) fundamentally changes the environment and undermines the ecological integrity of animal habitats. The most obvious effect of ALAN is the urban sky glow that is visible at great distances from cities. Not only does this form of light pollution affect the survival of wildlife but it reduces human biological resistance against physical and mental ailments. It also reduces the visibility of a star-filled sky.

The Royal Astronomical Society of Canada (RASC, www.rasc.ca) in cooperation with Parks Canada developed guidelines for outdoor lighting (GOL) that define "Low-Impact Lighting". The GOL forms the basis of lighting in Parks Canada Facilities, and the Canadian Dark-Sky Preserve Program, It is also used by the US National Park System and the International Darksky Association.

Currently in Canada, these guidelines are only applied in some Parks Canada Facilities. However these Guidelines have been demonstrated for use along urban residential streets.

We propose these Guidelines be promoted in urban areas as well as our National Parks. This will:

- a) Significantly reduce the use of electricity below that of current white-light LEDs,
- b) Minimize the nuisance and health problems caused by light trespass across our residential areas and into our homes,
- c) Improve safety along residential roads by reducing glare, and
- d) Reduce the ecological footprint of our cities across the countryside.

I am prepared to speak about these points when requested.

Sincerely,

Robert Dick

Royal Astronomical Society of Canada

Chair of the Light Pollution Abatement Committee, and

Principle, CSbG Inc.

<contact information removed>

The RASC is a 5,000-member organization that promotes astronomy and the social awareness of science to benefit the public.