GETTING THE FACTS ON

Bruce Power and Radiological Emissions

Bruce Power
Innovation at work

FOR MORE INFORMATION ON OUR LICENCE RENEWAL, PLEASE VISIT **www.brucepower.com/licencerenewal2018** OR **www.brucepower.com/factsheets**. FOR QUESTIONS **info@brucepower.com**.

Radiation is all around us. It naturally occurs in the environment. It's in the rocks, water, air, plants, food and even exists within our bodies. It also comes from the sun and cosmos. There are also human-made radioactive sources, such as medical scans, x-rays, cancer treatments and nuclear power generation.

Everyone is exposed to radiation. How much dose individuals get annually varies widely and depends on a wide variety of factors, such as:

Geological conditions in your area

Your altitude above sea level

Lifestyle choices (such as how often you fly)

Any radiological medical treatments you may receive

Nuclear power generation is one of the most highly regulated industries in the world. Bruce Power goes to inordinate lengths to ensure the radiological safety of its workforce, the public and the environment. These measures are part of our operating licence.

Exposure and dose limits for all Nuclear Energy Workers is closely tracked. There are also dose limits calculated for members of the public living near a nuclear power plant. The dose is determined through extensive third-party studies, as well as the data from constant monitoring of emissions releases to the air and water and monitoring of plants, animals, air and water.

The MAXIMUM dose a member of the public can receive from living near a power plant is **1 millisievert (mSv) per year.**

The ACTUAL dose of a person living next to the property line of the Bruce site in 2016 was calculated at **.0016 mSv.** It equates to eating 16 bananas in one year. (1 banana = 0.0001 mSv)

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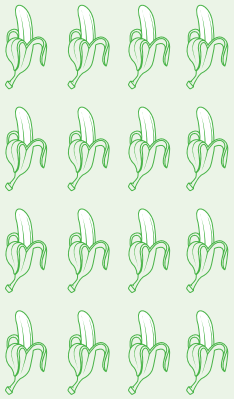

Bruce Power takes its commitment to the environment, the public and our employees very seriously. We are currently investing hundreds of millions of dollars to upgrade our air filtration and monitoring capability of any radionuclides from the site. This chart shows comparative dose rates for various activities to help you understand how little additional radiation a person who lives near Bruce Power receives in one year.