

Radiation Safety Policy

Applicable Legislation:

Nuclear Safety and Control Act and Regulations:

- General Nuclear Safety and Control Regulations
- Administrative Monetary Penalties Regulations
- Radiation Protection Regulations
- Class II Nuclear Facilities and Prescribed Equipment Regulations
- Nuclear Substances and Radiation Devices Regulations
- Nuclear Security Regulations

Occupational Health and Safety Act and Regulations

- R.R.O 1990 Reg. 861 X-Ray Safety

Healing Arts and Radiation Protection Act and Regulations

- R.R.O 1990, Reg. 543 X-Ray Safety Code

Applicable Standards and Guidelines

- Canadian Nuclear Safety Commission (CNSC) - Issued Licenses
- American National Standard for Safe Use of Lasers ANSI Z136.1
- Ministry of Labour Guideline - Lasers in Ontario Workplaces

Intent

The intent of this policy is to establish the requirements for ensuring appropriate management of ionizing and non-ionizing radiation risks at the University of Guelph.

Application

This policy applies to all faculty, staff, students visitors, and contractors involved in research, teaching, clinical and operational activities using ionizing and non-ionizing radiation at the University of Guelph including the regional campus, research stations and approved University field sites.

Policy

1. Consistent with the objectives of the University's Environmental Health and Safety Policy, the University is committed to the safe management and use of ionizing and non-ionizing radiation and radiation devices to ensure health protection, workplace safety and regulatory compliance.
2. The University will establish and maintain a Radiation Safety Program that will manage and rigorously control all ionizing and non-ionizing radiation and radiation devices used at the University. The University shall regularly review and make appropriate amendments to the program.
3. Working safely with radiation is the responsibility of everyone involved in the use and management of

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radioactive sources and equipment. It is the University's expectation that all individuals adhere to the As Low As Reasonably Achievable (ALARA) principle and follow all regulatory requirements and the requirements of the University of Guelph outlined in the Radiation Safety Manual for the acquisition, use storage, transportation and disposal of nuclear substances, radiation devices and prescribed equipment.

4. The Radiation Safety Officer(s) (RSO) is responsible for the implementation and management of the Radiation Safety Program. The RSO is authorized by the University to stop all work and suspend any activity involving the use of radioactive sources or equipment that may pose a threat to the health and safety of an individual or that would violate the University's CNSC-issued license conditions or regulatory compliance.
5. The University shall maintain a Radiation Safety Committee. Members of the committee are appointed by the Vice President, Finance, Administration and Risk. The committee advises senior management and the RSO on matters related to radiation safety. Their primary responsibility is the oversight of the Radiation Safety Program.

Glossary

Ionizing Radiation

Radiation with sufficient energy that it can knock electrons out of their atomic orbit creating an ion. Includes alpha, beta, gamma and neutron radiation as well as x-rays.

Non-Ionizing Radiation

Radiation with insufficient energy to ionize atoms or molecules. Includes microwave, ultraviolet, infrared, electromagnetic frequency.

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