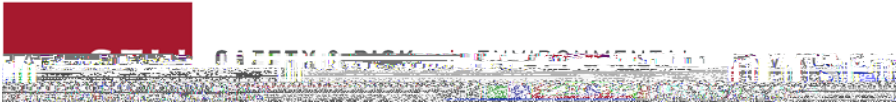


Dosimetry Program

Environmental Health & Safety

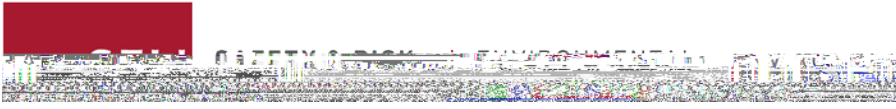
2022



This document was prepared by the Department of
Environmental Health and Safety, Simon Fraser
University (SFU)

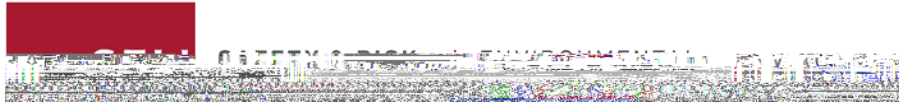
For questions or comments, contact:

Radiation Safety Technician
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Record of Changes

Date	Revised by	Revision
August 13, 2019	n/a	Original version, prepared by Alina Tepes and Jutta R.-Hauerland



5. CNSC Dose Limits

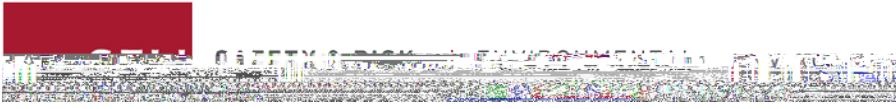
The **Radiation Protection Regulations** are largely based on the recommendations of the International Commission on Radiological Protection (ICRP), which is made up of some of the world's leading scientists and other professionals in the field of radiation protection. The regulations are also based on many of the standards and guidelines of the International Atomic Energy Agency.

Regulatory dose limits are based on scientific evidence of the human health risks that can result from radiation exposure. Occupational dose limits are set at conservative levels, below which harm is unlikely. As a prudent measure, it is assumed that every exposure to radiation carries some risk even if it is below the regulatory dose limit. For this reason, there is an additional regulatory requirement to reduce all doses to levels that are as low as reasonably achievable (ALARA), taking into account social and economic factors. This requirement is commonly referred to as the ALARA principle. It should be noted that dose limits for workers are different than those for members of the public.

Table 1: Prescribed Effective Dose Limits		
Person	Period	Effective Dose Limit (mSv)
Nuclear Energy Worker (NEW), including a pregnant NEW	(a) One-year dosimetry period	50*
	(b) Five-year dosimetry period	100
Pregnant NEW	Balance of Pregnancy	4
Person who is not a NEW	One calendar year	1

* WorkSafeBC states that the effective dose limit for a Nuclear Energy Worker (NEW), over (a) one-year dosimetry period shall not exceed 20 mSv. Therefore, we follow the WCB guidelines for this effective limit.

Table 2: Prescribed Equivalent Dose Limits			
Organ or Tissue	Person	Period	Equivalent Dose (mSv)
Lens of an eye			



6. Relevant Regulatory Documents