

# WORKSAFEBBC - RISK ANALYSIS UNIT PROJECT

<b>Slow acting harms</b>	Involves risks where there can be many years between the initial exposure to a hazard and the materialization of an adverse outcome
Catastrophic risks	Risks that have the potential to result in an incident with 3 or more workers being hospitalized
<b>Emerging risks</b>	Risks with growing and potentially uncertain trends
<b>Invisible risks</b>	Risks that are not fully revealed through detection or reporting

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# RAU Interactive Risk Register

Search this site

Select	ID	Title	Risk Stream	Catastrophic	Emerging	Invisible	Slow Acting	OD	Hygiene	Project Status	F	S	Impact = F*S <sup>2</sup>	U	Criticality = F*S <sup>2</sup> *U <sup>3/4</sup>	Risk Adv.	Risk Profile	Chg. Log/ Cmmt Log	Con. Lead	SRA
Clear			Perceived Portfolio-Acute Tra Portfolio-Catastrop Portfolio-Slow Acti Risk Signal	Clear	Clear	Clear	Clear	Y	Clear	Clear	Clear			Clear		Clear	Clear		Clear (Empty) AM AM/DM CH	Clear
Count of Risks: 22 <span style="float: right;">Clear Filters ✕</span>																				
<input type="checkbox"/>	10075	<a href="#">Crystalline silica exposure</a>	Portfolio-Slow Acting			X	X	Y	Y	A	3	2.4	17.0	3	459	X	X	X/1	GC/DG	DD
<input type="checkbox"/>	10179	<a href="#">Hazardous drug exposure</a>	Portfolio-Slow Acting				X	Y	Y	C	2	1.6	5.1	3	138	X	X	X/0	KVP/GC	AM
<input type="checkbox"/>	10047	<a href="#">Exposure to asbestos during demolition and construction activities</a>	Portfolio-Slow Acting				X	Y	Y	P	2	2.7	14.3	2	114		X	X/1	GC/DG	DD
<input type="checkbox"/>	10160	<a href="#">Radiation exposure from dental cone beam computed tomography (CBCT)</a>	Portfolio-Slow Acting		X		X	Y	Y	C	2	2.1	8.8	2	71	X	X	X/3	DG	DD
<input type="checkbox"/>	10194	<a href="#">Flour dust exposure</a>	Portfolio-Slow Acting			X	X	Y	Y	A	2	2.0	8.1	2	65	X	X	X/2	GC	DD
<input type="checkbox"/>	10029	<a href="#">Welding fume exposure</a>	Portfolio-Slow Acting			X	X	Y	Y	A	2	1.5	4.5	2	36	X	X	X/0	GC	AM
<input type="checkbox"/>	10228	<a href="#">Electromagnetic frequency exposure from communication antennas on buildings</a>	Portfolio-Slow Acting		X		X	Y	Y		1.5	1.5	3.4	2	27		X	X/0	DG	AM
<input type="checkbox"/>	10190	<a href="#">Tick-borne infectious disease</a>	Portfolio-Slow Acting	X	X	X		Y	Y		1.5	1.3	2.5	2	20	X	X	X/2	GC	AM

## OHS REGULATION PART 7 DIVISION 3

**This Division applies to all sources of ultrasonic energy, non-ionizing and ionizing radiation, including radiation sources governed by the *Nuclear Safety and Control Act* (Canada), except as otherwise determined by the Board.**

## GENERAL REQUIREMENTS

Until it is determined with confidence whether a worker's annual exposure exceeds or could exceed 1 mSv, an employer must ensure that the worker is provided with and properly uses a personal dosimeter acceptable to WorkSafeBC. Refer also to section 7.22 of the *Regulation* and OHS Guideline G7.22 Monitoring exposure. When monitoring has been conducted for at least one year and the incurred doses are properly documented, the employer can use the dose results to determine whether a worker's annual exposure is likely to exceed 1 mSv.

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# EXPOSURE LIMITS AND ALARA

<b>Applicable Body Organ or Tissue</b>	<b>Maximum Annual Dose (mSv)</b>
Whole body – non-pregnant worker (effective dose)	20
Whole body – pregnant worker (effective dose)	4
Lens of eye (equivalent dose)	150 (under review)
Skin (equivalent dose)	500
Hands and feet (equivalent dose)	500



# REPRODUCTIVE HAZARDS

Workers are fully informed of any potential reproductive hazards associated with exposure to ionizing radiation.

When requested by a pregnant worker or by a worker intending to conceive a child, the employer must make counselling available with respect to the reproductive hazards associated with exposure to ionizing radiation.

# **STANDARDS FOR USE OF EQUIPMENT**

**Equipment producing ionizing or non-ionizing radiation or ultrasonic energy must be installed, operated and maintained in accordance with Safety Code 34**

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# EXPOSURE CONTROL PLAN



- **Site specific ECP**
- **Master ECP with safe work procedures applied for site activities**
- **Education and training**

## **RADIATION SURVEYS**

**The employer must conduct a radiation survey for ionizing radiation in accordance with the standard practice specified under the applicable Safety Code listed in section 7.23 (a)**

**(a) at the times required by the Safety Code or regulations, as the case requires,**

**(b) if equipment has been damaged or modified, or**

**(c) if there is an indication of an unusually high exposure of a worker to ionizing radiation.**

# **RECORDS**

**The employer must**

**(a) maintain and make available to the Board,**

**(i) for at least 10 years, records of radiation surveys,**

**(ii) for the period that the worker is employed plus 10 years, records of exposure monitoring and personal dosimetry data, and**

**(b) make the records available to workers**