

Vision: To be the Healthiest State in the Nation

Biosafety Risk Assessment: Risk Likelihood and Consequences Evaluation Worksheet

This worksheet is intended to be used in conjunction with the "Conducting a Biosafety Risk Assessment" Standard Operating Procedure. This is meant to aid in the "Implementation of New Controls" step, in particular when evaluating the severity of a risk when not all recommended controls can be implemented in a laboratory and the risks must be prioritized.

Activity/Practice/Procedure Being Assessed:

Hazard Being Assessed:

Definitions

Rating of Likelihood				
Rating	Likelihood			
Frequent	More than once a year			
Moderate	Once per year			
Occasional	Once in 5 years			
Rare	Once in 25 years (e.g. once in the life cycle of the system)			
Unlikely	Once in 100 years			
Very Unlikely	Once in 1,000 years			

Rating of Consequences							
Rating	Consequences						
Catastrophic	People:	fatalities, evacuation outside site area					
	Environment:	irreversible, long-term damage outside site area					
	Business:	Total loss:	> \$2 million				
		Interruption:	> 2 months				
		Image:	severely damaged, > 1 week, national				
Critical	People:	serious injuries, effects outside site area					
	Environment:	reversible, short-term damage outside site area					
	Business:	Total loss:	tal loss: \$100,000 - \$2 million				
		Interruption:	2 - 8 weeks				
		Image:	damaged, > 1 week, regional				
Marginal	People:	minor injuries, annoyance outside site area					
	Environment:	only site area effected					
	Business:		\$5,000 - \$100,000				
		Interruption:	1 – 2 weeks				
		Image:	< 1 week, local				
Negligible	People:	no effects					
	Environment:	only building effected					
	Business:	Total loss:	< \$5,000				
		Interruption:	< 1 week				
		Image:	no noticeable effects				

Procedure

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1. Using the definitions above for the likelihood and consequences of this hazard, check the appropriate box below to indicate your estimation of the risk posed by this hazard.

Ris	Risk Evaluation									
		Consequences								
		Negligible	Marginal	Critical	Catastrophic					
	Frequent									
po	Moderate									
ho	Occasional									
keli	Rare									
Lik	Unlikely									
	Very Unlikely									

2. An evaluation closer to the top right of this worksheet's chart is associated with a severe risk.

Sources

This worksheet is based almost entirely upon the following source. This worksheet's creators are tremendously thankful to the Office of Research Assurances' Institutional Biosafety Committee (IBC) at Washington State University and its members who created this source.

- 1. Washington State University Biosafety Risk Assessment Guidelines v.11.13.13
 - 1.1. http://www.bio-safety.wsu.edu/forms.asp

These resources are the product of research from respected biosafety sources that were combined to help create a biorisk program. Please follow your own professional judgement, your institution's established guidelines, and any applicable local, state, and federal requirements.