

RISK SEVERITY GUIDELINES

Impact Value	Impact Level	IMPACT					
		<i>Impact is determined by considering what the activity, service, or issue results in or could result in.</i>					
		Environmental	Injury	Financial	Reputational	Research & Operational Impacts	Compliance
3	High	<ul style="list-style-type: none"> Significant hazard to safety and health of workers, environment or public: <ul style="list-style-type: none"> Exposures above regulatory limits Environmental release off site or above regulatory limit 	<ul style="list-style-type: none"> Significant impact to the safety of LBNL: <ul style="list-style-type: none"> Death Serious/ irreversible illness/injury Permanent Disability Hospitalization ≥ 24Hrs 	<ul style="list-style-type: none"> ≥ \$1M property loss or damage ≥ \$1M excess costs due to inefficiencies ≥ \$1M negative cost impact 	<ul style="list-style-type: none"> Significant negative publicity or public opinion Significant political pressure Significant potential for litigation or civil penalty 	<ul style="list-style-type: none"> Significant impacts on LBNL research activities <ul style="list-style-type: none"> Inability to perform research to meet objectives Significant impacts on LBNL operations <ul style="list-style-type: none"> Extended facility shutdown or operational restrictions 	<ul style="list-style-type: none"> Civil penalties or fines levied by external regulatory agencies Significant potential for litigation or criminal action UC loss of contract award year and/or fee reduction Requires immediate notification to external regulatory agencies External regulatory agency investigation Recurring issue as determined by data monitoring and analysis Systematic non-compliance with regulations/contract and risks are analyzed, deemed high, controls in place to keep risks low
2	Moderate	<ul style="list-style-type: none"> Hazard to the safety and health of workers, public and environment <ul style="list-style-type: none"> Exposures near regulatory limits Minor environmental release outside of building but on site Major release within building 	<ul style="list-style-type: none"> Moderate impact to the safety of LBNL: <ul style="list-style-type: none"> Hospitalization <24Hrs. Partial Disability/temporary total disability >3 mos. Restricted or Alternate Duty Reversible illness/injury 	<ul style="list-style-type: none"> ≥ \$25K to < \$1M property loss or damage ≥ \$100K to < \$1M excess costs due to inefficiencies ≥ \$100K to < \$1M negative cost impact 	<ul style="list-style-type: none"> DOE HQ Notification Negative publicity or public opinion Some political pressure Some potential for litigation or civil penalty 	<ul style="list-style-type: none"> Some impact to LBNL research activities Some impact to LBNL research operations <ul style="list-style-type: none"> Short-term facility shutdown or operational restrictions 	<ul style="list-style-type: none"> External regulatory agency review Noncompliance with moderate impact to LBNL Adverse trend over an extended period of time
1	Low	<ul style="list-style-type: none"> Minor hazardous material released within building 	<ul style="list-style-type: none"> Minor or negligible impact to the safety of LBNL: <ul style="list-style-type: none"> No hospitalization No or minor illness/injury No restrictions No disability 	<ul style="list-style-type: none"> < \$25K property loss or damage < \$100K excess costs due to inefficiencies < \$100K negative cost impact 	<ul style="list-style-type: none"> BSO concerns Lab Management concerns Political pressure Little potential for litigation or civil penalty Little or no impact on perception of LBNL and UC 	<ul style="list-style-type: none"> Minor or negligible impact to LBNL research activities and/or operations 	<ul style="list-style-type: none"> Noncompliance with regulations/contract with minor/negligible impact to LBNL

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IMPACT DEFINITIONS:

Impact is defined as the magnitude, significance, or severity of an unfavorable effect.

- High Impact: Potential for significant adverse safety incidents, cost, major delay or significant negative institution-wide effect.
- Moderate Impact: Potential for substantive safety consequence or cost, or substantive negative institutional effect.
- Low Impact: Potential for minor safety impact or cost, or minimal negative institutional effect.

Likelihood Value	Likelihood Level	LIKELIHOOD
3	High	<ul style="list-style-type: none"> • Probable or more likely than not that the issue/ event will occur <ul style="list-style-type: none"> – Issue/event has occurred multiple times in last 12 months
2	Moderate	<ul style="list-style-type: none"> • More than remote but less than probable chance that the issue/event will occur <ul style="list-style-type: none"> – Issue/event has happened in last 18-24 months
1	Low	<ul style="list-style-type: none"> • Remote chance that the issue/ event will occur <ul style="list-style-type: none"> – Issue/event has not occurred in the past

EXAMPLE OF QUANTITATIVE APPROACH

How to Calculate Risk Severity

		IMPACT		
		Low (1)	Moderate (2)	High (3)
LIKELIHOOD	High (3)	3	6	9
	Moderate (2)	2	4	6
	Low (1)	1	2	3

Multiply the Impact Value by the Likelihood Value to determine the combined Risk Severity Level

- High Risk = Total value 6-9
- Moderate Risk = Total value 3-5
- Low Risk = Total value 1-2

Combined Risk Severity Definitions

High Risk: high likelihood to occur, near miss or has occurred and results, or could result, in significant injury, loss, damage and/or significantly impacts achievement of mission/business objectives. Requires immediate attention from senior management and/or follows a formal, rigorous process and/or requires the application of formal, rigorous controls.

Medium Risk: would occur at some point in time, near miss or has occurred and results, or could result, in substantive injury, loss, damage and/or impacts achievement of mission/business objectives. Requires prompt attention from Division management and/or follows a more formal, rigorous process and/or requires the application of some formal, rigorous controls.

Low Risk: is not likely to occur, near miss or has occurred and results, or could result, in nominal injury, loss, damage and/or nominally impacts achievement of mission/business objectives. Requires some attention from line-management, follows less formal or casual process and/or requires the application of less formal, rigorous controls