

Management System Frame Work

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	1	Minor Injury, first aid medical treatment or restricted workday case	Nuisance to off-site public	Slight damage (<\$1m) <1barrel	Ecosystem or habitat disturbance or alteration within natural variability; less than 1% of ecosystem or habitat impacted; recovery less than 6 months.	Isolated and uncoordinated local complaints. Minor damage to existing relationships with partners and suppliers	Very Low					
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Hazard Risk Assessment value returned during risk assessment.

Example:

Initial selection of Severity Environment 4 = E4, Likelihood Likely = D

Residual selection of Severity Environment 4 = E4, Likelihood Unlikely = B

Note: as per current design the user will not be able to select a different Severity and/or a higher likelihood.

Hazard Risk Assessment value returned during risk assessment. Example: Initial selection of Severity Environment 4 = E4, Likelihood Likely = D Residual selection of Severity Environment 4 = E4, Likelihood Unlikely = B Note: as per current design the user will not be able to select a different Severity and/or a higher likelihood.							LIKELIHOOD					
							1	2	3	4	5	
							Financial / Reputation	Never heard of in the Industry	Heard of in the Industry	Has happened in BG Group, or more than once per year in the Industry	Has happened in the Asset, or more than once per year in BG Group	Has happened at the facility, or more than once per year in the Asset
People	Less than 1 in 1 million chance per annum	Greater than 1 in 1,000 chance per annum	Between 1 in 100,000 and 1 in 1 million chance per annum	Between 1 in 10,000 and 1 in 100,000 chance per annum	Between 1 in 1,000 and 1 in 10,000 chance per annum							
	< 10-6 per year	10-6 < x < 10-5 per year	10-5 < x < 10-4 per year	10-4 < x < 10-3 per year	>10-3 per year							
Workers	Public	Asset	Environment	License to Operate / social impact		Highly Unlikely	Unlikely	Possible	Likely	Highly Likely		
SEVERITY (Consequence)	5	P5	P5	A5	E5	R5	Very High	A	B	C	D	E
	4	P4	P4	A4	E4	R4	High	A	B	C	D	E
	3	P3	P3	A3	E3	R3	Moderate	A	B	C	D	E

	2	P2	P2	A2	E2	R2	Low	A	B	C	D	E
	1	P1	P1	A1	E1	R1	Very Low	A	B	C	D	E

Hazard Risk Assessment scores

Example;

Initial selection of Severity (Environment 4 = E4, Likelihood Likely = D) Score = 16

Residual selection of Severity (Environment 4 = E4, Likelihood Unlikely = B) = 8

Note: Although there may be multiple hazards identified with different scores it is the highest initial and residual that is returned to the barrier model.

							LIKELIHOOD					
							1	2	3	4	5	
<p>Hazard Risk Assessment scores</p> <p>Example;</p> <p>Initial selection of Severity (Environment 4 = E4, Likelihood Likely = D) Score = 16</p> <p>Residual selection of Severity (Environment 4 = E4, Likelihood Unlikely = B) = 8</p> <p>Note: Although there may be multiple hazards identified with different scores it is the highest initial and residual that is returned to the barrier model.</p>							Financial / Reputation	Never heard of in the Industry	Heard of in the Industry	Has happened in BG Group, or more than once per year in the Industry	Has happened in the Asset, or more than once per year in BG Group	Has happened at the facility, or more than once per year in the Asset
							People	Less than 1 in 1 million chance per annum	Greater than 1 in 1,000 chance per annum	Between 1 in 100,000 and 1 in 1 million chance per annum	Between 1 in 10,000 and 1 in 100,000 chance per annum	Between 1 in 1,000 and 1 in 10,000 chance per annum
								< 10-6 per year	10-6 < x < 10-5 per year	10-5 < x < 10-4 per year	10-4 < x < 10-3 per year	>10-3 per year
		People		Financial	Reputation			Highly Unlikely	Unlikely	Possible	Likely	Highly Likely
		Workers	Public	Asset	Environment	License to Operate / social impact						
SEVERITY (Consequence)	5	P5	P5	A5	E5	R5	Very High	5	10	15	20	25
	4	P4	P4	A4	E4	R4	High	4	8	12	16	20

	3	P3	P3	A3	E3	R3	Moderate	3	6	9	12	15
	2	P2	P2	A2	E2	R2	Low	2	4	6	8	10
	1	P1	P1	A1	E1	R1	Very Low	1	2	3	4	5

Hazard Risk Assessment ALARP value returned during risk assessment.

Example:

Initial selection of Severity Environment 4 = E4, Likelihood Likely = D

Residual selection of Severity (Environment 4 = E4, Likelihood Unlikely = B) ALARP 10 -5

Note: ALARP is based on the Residual risk value (mitigated risk) see templates for example of layout.

		LIKELIHOOD				
		1	2	3	4	5
Reputation		Never heard of in the Industry	Heard of in the Industry	Has happened in BG Group, or more than once per year in the Industry	Has happened in the Asset, or more than once per year in BG Group	Has happened at the facility, or more than once per year in the Asset
		Less than 1 in 1 million chance per annum	Greater than 1 in 1,000 chance per annum	Between 1 in 100,000 and 1 in 1 million chance per annum	Between 1 in 10,000 and 1 in 100,000 chance per annum	Between 1 in 1,000 and 1 in 10,000 chance per annum
		< 10-6 per year	10-6 < x < 10-5 per year	10-5 < x < 10-4 per year	10-4 < x < 10-3 per year	>10-3 per year
		Highly Unlikely	Unlikely	Possible	Likely	Highly Likely
		10 -6	10 -5	10 -4	10 -3	10 -2

	People		Financial	Reputation	
	Workers	Public	Asset	Environment	License to Operate / social impact
	P5	P5	A5	E5	R5

4	P4	P4	A4	E4	R4	High	10 ⁻⁶	10 ⁻⁵	10 ⁻⁴	10 ⁻³	10 ⁻³
3	P3	P3	A3	E3	R3	Moderate	10 ⁻⁶	10 ⁻⁵	10 ⁻⁴	10 ⁻⁴	10 ⁻³
2	P2	P2	A2	E2	R2	Low	10 ⁻⁷	10 ⁻⁶	10 ⁻⁵	10 ⁻⁴	10 ⁻³
1	P1	P1	A1	E1	R1	Very Low	10 ⁻⁷	10 ⁻⁶	10 ⁻⁵	10 ⁻⁵	10 ⁻⁴