

Risk Matrix

STAY ON TOP OF YOUR GAME

Risk Matrix	Consequence								
Likelihood	Minor	Low	Moderate	Major	Severe	Catastrophic			
Almost Certain	L	M	S	Н	н	Н			
Likely	L	M	M	S	Н	Н			
Possible	L	L	M	S	S	н			
Unlikely	L	L	L	M	М	S			
Rare	L	L	L	L	L	М			

Level of Risk

н	High – seek authorisation to proceed without risk reduction from your General Manager
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- Significant seek authorisation to proceed from your Site Manager
- Moderate seek authorisation to proceed from your Supervisor
- Low proceed and manage using routine methods

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		Area of Consequence							
Consequence		Financial Impact	Health and Safety	Environment		Security	Plant Availability		
Catastrophic		> \$100M loss	Multiple fatalities Irreversible environmer		long term tal harm.	Terrorist attack on plant or people, malicious damage to IT and infrastructure.	Loss > 4,000 GWh		
Severe Up to \$100M loss		Up to \$100M loss	Fatality	Environmental release, large, offsite, reversible in > 100 days.		Violent demonstration threats to site personnel.	Up to 4,000 GWh		
Major Up to \$10M lo		Up to \$10M loss	Permanent disability (e.g. serious lost time injury)			Trespass with criminal intent, vandalism, and breach of site security by protestors or bomb threat.	Up to 400 GWh		
Moderate Up to \$1M loss		Reversible disability or impairment (e.g. short term lost time injury) Environmental release, small, offsite, reversible in up to 10 days.		Fraud or theft < \$10K, off site protest.	Up to 40 GWh				
Low Up to \$100K loss		Short term medical treatment injury	Environmental release, small, offsite, reversible in up to 1 day.		Low impact incident – theft or trespass.	Up to 4 GWh			
Minor		< \$10K	Low level, short term injury (e.g. first aid case)	Environmental release, contained onsite.		Gate left unlocked or graffiti.	Loss of < 4 GWh		
Likelihood	Likelihood of Occurrence		Description		Health and Safety References/examples				
Almost Certain		A l most certain	Happening now or expected wi the next year; or 99% probability of occurrence		Vehicles may exceed speed limits on site by less than 5 km/hr when appropriate controls are not in place. In certain areas (e.g. boiler house) exposure to noise may exceed 85db.				
Likely		1 in 10 obabi l ity	Balance of probability will occur with the next 10 years; or 10% probability of occurrence		PTW system (If process not followed) wrong plant isolated, persons working on energised plant, isolation not tested or ineffective at controlling energy source.				
Possible		in 100 obabi l ity	Could occur at some time in the future; or 1% probability of occurrence		Grievous bodily injury, loss of limb or permanent impairment from a combination of factors which are known to occur. Protest event prevents production of power for more than a week.				
Unlikely		in 1,000 obabi l ity	Not likely to occur; Very unusual in business experience; or 0.1% probability of occu	1	Single fatality due to an event which resulted from an unusual combination of factors. Failure of all safety precautions taken on site to prevent the incident occurring. On site security breach with loss of life.				
Rare		n 10,000 obabi l ity	No reported occurrence; or 0.01% probability of occurrence		Uncontrolled and catastrophic failure of the boiler or turbine causing complete and irreversible damage. Multiple fatalities due to one event occurring at one time. Terrorist threat on all plants.				