

Example - Preliminary Risk Analysis & Risk Register



Company:	
Project ID:	
Project name:	
Owner Representative:	
Risk Assessor:	
Attendees:	
Date:	
Revision:	

Category	Identified situation	Feared event / Worsening elements	Risk reducing measures	Consequences / Worsening elements	S	P	C	Initial risk value (in LC)	Preventive - Corrective recommended actions	Act. N°	Actual treatment (references)	Action cost (in LC)	Sr	Pr	Cr	Remarks	Residual financial impact (Sr in)	Pr in %	Residual risk value (in LC)	Contingencies (in LC)
Reliability / Safety / Environment	Workplace death	Fatality	Implement and manage project safety management system. Employ HSE Advisor for duration of project to management the PSMS		3	2	32		Create and monitor project HSE risk register. Ensure all contractors have certified safety management system.		-	-	3	1	31		200,000	20%	40,000	40,000
Reliability / Safety / Environment	Serious injury	Multiple personnel injured	Implement and manage project safety management system. Employ HSE Advisor for duration of project to management the PSMS		2	3	23		Create and monitor project HSE risk register. Ensure all contractors have certified safety management system. Incident reporting systems. Both contractors have certified safety management system, audit annually. Weekly, monthly safety meeting between ALWA & contractors.		-	-	2	2	22					
Reliability / Safety / Environment	Chemical spill and resulting land or groundwater contamination	undetected spill	Reduction of hazardous chemicals held onsite (minimum quantities).		2	3	23		Reduction of hazardous chemicals held onsite (minimum quantities). Leak verification of all pipe work and storage units prior to use. Monitoring of chemical levels and contents of discharge and waste.				2	2	22					
Reliability / Safety / Environment	Fire or explosion	Spread of disaster zone	Emergency management plan in place. Neighbouring facilities have EMP plan in place.		4	2	42		Dedicated systems and procedures for operation and commissioning. Interlocks and fail-safe devices including is lotion and cut-off systems. Fire monitoring devices. Trained and experienced commissioning team.				4	1	41					
Schedule	Delay to HV integration project	No electricity supply to new plant by Dec-Jan			2	3	23		All drawings finalised, contract with power provider in last stages				2	2	22					
Technology / Process / Operation	Poor Workmanship on Equipment	Significant reduction in plant life span.process not working	PMO to co-ordinate technical information and notify ALWA of any change asap.		3	3	33		We relyon engineering to clarify and assure, companyneed to assess and repair visually identifiable defects.				3	3	33					
Site	Fire water line (existing)	Lack of adherence to council and federal requirements	Fire consultants are engaged to assess and to comply with regulations.		3	3	33						3	1	31					
Technology / Process / Operation	premit for pipeline line (cooling water discharge)	Plant will have to be in shutdown stage	Final design to connect permanent pipe to authority to be started very soon.		3	3	33		lease for Pond (next door) is finalised.				2	2	22					
Purchasing / Suppliers	Contractor - Falling to meet contract deadline	Contractor unable to finish mechanical works in time due to non-compliance with supplied equipment	Variation team implemented, regular progress tracking at weekly meetings.		2	4	24		Variation team & Scope of work regularly assessed				2	3	23					
Purchasing / Suppliers	Contractors - Falling to meet contract requirements	Contractor unable to finish mechanical works in time due to non-compliance with supplied equipment	as above		2	2	22						2	2	22					
Purchasing / Suppliers	Mech Contractor - Falling to meet contract deadline	COntractorceasing to do business, bankruptcy	Bank guarentee of 10% withhold by company		3	3	33						3	3	33					
Purchasing / Suppliers	Contractor - Falling to meet contract requiremnts	Contractor ceasing to do business, bankruptcy	Bank guarentee of 10% withhold by company																	
Purchasing / Suppliers	IR issue on site	Contractors work is stopped by Union.	Regular site consultation between Management & Worker to identify site concerns and issues.		1	2	12						1	2	12					