

Cooling Towers SAFE WORK METHOD STATEMENT (SWMS)										
Т	ASK OR ACTIVITY: Cooling Towe	ers								
Business Name: [Company Name]		ABN: [ABN]	SWMS#							
Business Address: [Company Address]										
Contact Person:	Phone: [Phone]	E. pil:								
THIS SAFE WORK METHOD STATEMENT IS APPROVED BY THE PLOT OF THE PROJECT										
Under the Work Health and Safety Regulation (WHS Regulation), a person conducte proposed work starts.	cting a business or undertaking (HBU) is	required to thurs out a safe work method s	statement (SWMS) is prepared before							
Full Name:										
Signature:		Title:	Date:							
Details of the person(s) responsible for ensuring implementation, monitoring and compliance of the SWMS, well as reviews and modifications of the SWMS.										
Full Name:		Title:	Phone:							
ALL PERSONNEL PARTICIPATING IN ANY ACTIVITY ON THIS WMS. ST HAVE THE FOLLOWING COMMUNICATED	N. 1E AND DATED SIGNATURE OF A CO. MUNICATED TO IN THE DEVELO	ALL RELEVANT PERSONNEL WHO HAVE B OPMENT AND APPROVAL OF THIS SWMS	EEN CONSULTED AND							
Safety meetings or toolbox talks will be sched ed in accordance with regislative requirements to first identify any site hazards, condition of those hazards and then to further take steps to either condition of the archazard.	NAME	SIGNATURE	DATE							
If an incident or a near miss occurs, all work must study unately. Depending on the severity of the incident, a meeting will be called with all workers to amend the SWMS if required. The meeting may also be an educational opportunity.										
Any changes made to the SWMS after an incident or a near miss must be approved by the Person Conducting Business or Undertaking and communicated to all relevant personnel.										
The SWMS must be kept and be available for inspection at least until the work is completed. Where a SWMS is revised, all versions should be kept. If a notifiable incident occurs in relation to which the SWMS relates, then the SWMS must be kept for at least two years from the occurrence of the notifiable incident.										



CLIENT OR PRINCIPAL CONTRACTOR DETAILS											
Client:					SCOPE OF WORKS						
Project Name:					Provide a detailed description of the specific work being carried out (otherwi						
Project Address:			ŀ	known as cope of works).							
Project Manager	:										
Contact Phone:											
Project Manager	Signature:										
Date SWMS sup	plied to Project Manag	er:									
		ANY HIG	H-RISK CON TUCT		ARRIED OUT						
involves a risk of	a person falling more than	2 meters.		is carried out on of	near pressurised gas main	s or piping.					
is carried out on	a telecommunication tower			is carried out on o	☐ is carried out on or near chemical, fuel or refrigerant lines.						
involves demoliti	on of an element of a struct	ure that is load-be		is carried out on or near energised electrical installations or services.							
involves demoliti	on of an element related to	the physical integrit of a st	ir e,	☐ is carried out in an area that may have a contaminated or flammable atmosphere.							
involves, or is like	ely to involve, disturbing a	estos.		involves tilt-up or precast concrete.							
involves structura	al alteration or repair that re	mporan upp to	prevent collapse.	is carried out on, in or adjacent to a road, railway, shipping lane or other traffic corridor.							
☐ is carried out in c	or near a confined space.			is carried out in an area of a workplace where there is any movement of powered mobile plant.							
☐ is carried out in/r	near a shaft or trench deepe	er than 1.5m or tunnel involv	ving use of explosives.	is carried out in areas with artificial extremes of temperature.							
☐ is carried out in c	or near water or other liquid	that involves a risk of drown	ning.	involves diving wo	rk.						
		ANY	HIGH-RISK MACHINE	RY OR EQUIPMENT	NEARBY						
Forklift	Crane/s	☐ Hoist/s	Excavator	Backhoe/Loader	Boom Lift	EWP	Genie Lift				
Trencher	Drilling Rig	Trucks		Bobcat	E Flammable Gas	Fuel	Dozer				
High Voltage	Mulcher	Tilt-up Panels	Roller	Scissor Lift	Tractor	Other -					







JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR	RESPONSIBLE PERSON
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK	NAME OF PERSON
1. Preparation	Slips, trips and falls hazards, Hazardous materials handling	2М	 Conduct a comprehensive risk assessment before starting work to identify potential hazards and determine the necessary control measures. Ensure that all workers have completed relevant raining in handling hazardous materials and working in high-risk environments, specifically cooling towers. Establish a safe work zone around the cool tower or placing barricades and warning signs to prevent unauthorised personnent of entering the area. Regularly inspect the work to a for any potential los, trips or alls hazards, such as wet surfaces, loose floor grues, and uneven sub rescard address them immediately. Implement an ordatory prisonally tective enternent (PPE) policy for workers, including slip estistant shou safety togle proves, and other appropriate gear based on the sucific tast unvolved. Kees to work a subject list and clean, removing any debris, tools, or obstacles that could use trippin hazard. Provid tade tate vertiation in the working area to minimise the risk of exposure to hazardo the usal and improve air quality for the workers. Sone ha ardous materials in secure, clearly labelled containers and use proper disposition to avoid accidental spills or releases of chemicals. Schedule regular breaks for workers to prevent fatigue, which can contribute to accidents and improper handling of hazardous materials. Develop a detailed work plan outlining the specific tasks required for this work step and establish designated roles and responsibilities for workers to ensure they understand their duties and the safety precautions associated with each task. Promote open communication among the workers and encourage them to report any safety concerns or incidents so that corrective action can be taken promptly. Continuously monitor and review the implemented control measures, making adjustments as needed to mitigate changes or new risks that may arise during the course of the work project. 	1L	
2. Isolation	Electrical hazards, Incorrect valve closure	3H	 Lockout/Tagout (LOTO) Procedures: Implement a comprehensive lockout/tagout system to isolate, shut down, and de-energise electrical circuits before working on the cooling towers, thus eliminating the risks associated with electrical hazards. Regular Maintenance and Inspection: Conduct maintenance and inspection schedules for electrical components used in the cooling towers, such as circuit breakers, switchgears, and transformers, to identify and resolve any risks of electrical hazards before they occur. 	1L	



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			- Proper Training: Ensure that workers have received adequate training in electrical safety, including recognizing potential electrical hazards and implementing safe work practices while working on or near cooling towers.		
			- Personal Protective Equipment (PPE): Provide a propriate PPE to workers to protect them from the effects of electrical becards, such as insulating gloves, safety goggles, and arc flash suits.		
			- Use of Warning Signs: Place visible warning to paround the work area to notify personnel that electrical isolation is in progress at to remain of or of the area to avoid accidental exposures to azards.		
			- Safe Work Method (Compents, WMS): Develop a collow a detailed SWMS that outlines the procedures and pontry peasures to be followed when isolating the cooling tower and working parby.		
			- Valverdentification: Clearly label each access in the cooling tower system with its proposed to a supervision (e.g., open or closed) to prevent confusion or incorrect operation		
			- Double Check Valvestatus: Designate one worker to act as a "checker" to review another orket action a isolating a valve to ensure that it has been done correctly ad content the live's secure closure.		
	1		- Sn. Do n Adjacent Systems: When isolating the cooling tower, ensure that djacent stems are also shut down to minimise the possibility of unintentional eractions between the two systems.		
			- Auding Points: Establish clear holding points within the isolation procedure where authorised supervisors can review and sign off on each isolation before work progresses to the next step—helping prevent errors and improper valve closures.		
	5		 Emergency Response Planning: Develop an emergency response plan for responding to potential electrical incidents or accidents during cooling tower operations, including establishing a designated medical facility where injured personnel can be treated promptly. 		
			 Provide appropriate training to workers about the risks associated with confined spaces and working at heights in cooling towers, as well as the specific precautions to take. 		
	Optimulation Falls from heild f	014	- Ensure that cooling tower spaces are kept clean, tidy, and organised to minimise the risk of falls or other incidents during inspection tasks.		
3. Inspection	Confined space, Falls from height	2M	 Implement a permit-to-work system for entering and inspecting confined spaces within the cooling towers, ensuring that all necessary safety precautions have been taken before access is granted. 	1L	
			- Equip workers with suitable personal protective equipment (PPE), such as harnesses, fall arrest systems, and hard hats, to reduce the risk of injury from falling objects or falls from height.		



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			 Regularly inspect and maintain all PPE and fall prevention equipment to ensure its continued effectiveness in protecting workers during inspections. 		
			- Utilise mobile work platforms, scaffolding, or lader where necessary to allow workers to perform inspections safely without right form height.		
			- Establish proper safety barriers and warries signs around the inspection areas, especially near openings and drop-offs, to all worker or potential hazards and help prevent falls.		
			- Implement a buddy system were workers cond inspection in pairs or teams, allowing for peer support and transitoring.		
			- Develop and following the place case a worker guts trapped, injured or incapacitated inclue confine space of falls from a light during the inspection process.		
			- Corporate parly the effectively war all team members using radios, hand signal other hands to ensure safety during inspection tasks.		
			- Condition ular same meetings and toolbox talks to reinforce safety protocols and keep wilkers former frany updates or changes to inspection procedures, aspecial relation to contined spaces and working at heights.		
			 A sign a competent person to oversee the inspection process, ensuring all safety measure followed and addressing any concerns raised by workers during the spection. In all appropriate lighting within the confined spaces and at-height work locations 		
	G		to improve visibility and reduce the risk of slips, trips or falls during inspections. - Encourage workers to report any hazardous conditions, near misses, or incidents during the inspection process so that proper corrective measures can be taken to prevent future occurrences.		
4. Cleaning	Chemical exposure, Manual handling/poor ergonomics	2M		1L	



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5. Maintenance	Rotating & moving machinery, Miscommunication errors	ЗН		2M	



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JOB STEP SPECIFIC WORK STEPS	POTENTIAL HAZARDS HAZARDS THAT MAY ARISE	IR INITIAL RISK	CONTROL MEASURES SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK	NAME OF PERSON
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6. Component Replacement	Incorrect isolation, equipment failure	ЗН		1L	



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7. Water Treatment	Chemical spills, Leaks and water damage	2M		1L	

Version 2.5



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8. Drift Eliminator Installation	Falls from height, Cut ensuch hazard	2		1L	



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9. Fan Balancing	Noise hazards, Vitatuons	2M		1L	

Version 2.5



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10. System Startup	Unexpected energy release, Incompute startup operation	ЗН		1L	



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11. Testing & Verification	Electrical hazards, Inadequate testing equipment	2M		1L	



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12. Documentation	Errors in data entry, Miscommunication between team members	1L		1L	



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EMERGENCY RESPONSE - CALL 000 FOR EMERGENCIES

Ensure to have an Emergency Management Plan in place as well as adequate numbers of trained first aid staff with easy access to fully stocked first aid kits, rescue equipment, material safety data sheets, adequate access to emergency communication equipment and fire-fighting equipment suitable for all classes of fire and ignition sources.

LEGISLATIVE F	REFERENCES					
RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEGISLATIVE REFERENCES ANY STATE AT ARE NOT APPLICABLE						
Queensland & Australian Capital Territory Work Health and Safety Act 2011 Work Health and Safety Regulations 2011 _egislation QLD: https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws Codes of Practice QLD: https://www.worksafe.gld.gov.au/laws-and-compliance/codes-of-practice Legislation ACT: https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice Logislation ACT: https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice Logislation ACT: https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice Codes of Practice ACT: https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice	Victoria Occupational Health and Safety Action 04 Occupational Health and Infety or gulations 2017 Legismon VIC: <u>https://www.worksafe.vic.gov.au/occupational-health-and-safety-act-and- pulates</u> Undes on mactice VIC <u>artips://www.worksafe.vic.gov.au/compliance-codes-and-codes-practice</u>					
New South Wales Nork Health and Safety Act 2011 Nork Health and Safety Regulations 2017 Legislation NSW: <u>https://www.safework.nsw.gov.au/legal-obligations/legislati</u> Codes of Practice NSW: <u>https://www.safework.nsw.gov.au/resource-library/lis</u> <u>todes-of</u> practic	Western Australia Work Health and Safety Act 2020 Work Health and Safety Regulations 2022 Legislation Western Australia: <u>https://www.commerce.wa.gov.au/worksafe/legislation</u> Codes of Practice WA: <u>https://www.commerce.wa.gov.au/worksafe/codes-practice</u>					
Northern Territory Nork Health and Safety (National Uniform Legislation) Act 2011 Nork Health and Safety (National Uniform Legislation) Regulation 2011 Legislation NT: <u>https://worksafe.nt.gov.au/laws-and-compliance/wc_place-sectedays</u> Codes of Practice NT: <u>https://worksafe.nt.gov.au/f_compliance/wc_place-sectedays</u>	Safe Work Australia Links Law and Regulation (All States): <u>https://www.safeworkaustralia.gov.au/law-and-regulation</u> Model Codes of Practice: <u>https://www.safeworkaustralia.gov.au/resources-publications/model- codes-of-practice</u>					
South Australia Nork Health and Safety Act 2012 (SA) Nork Health and Safety Regulations 2012 (SA) Legislation for SA: <u>https://www.safework.sa.gov.au/resources/legislation</u> Codes of Practice for SA: <u>https://www.safework.sa.gov.au/worf_aces/codes-of-practice#COPs</u>	Model Codes of Practice - Managing noise and preventing hearing loss at work - Confined spaces - Labelling of workplace hazardous chemicals - Managing risks of hazardous chemicals in the workplace - Welding processes					
Fasmania Work Health and Safety Act 2012 Nork Health and Safety (Transitional and Consequential Provisions) Act 2012 Nork Health and Safety Regulations 2012 Nork Health and Safety (Transitional) Regulations 2012 Legislation for TAS: https://worksafe.tas.gov.au/topics/laws-and-compliance/acts-and-regulations Codes of Practice for TAS: https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice	 First aid in the workplace Managing the risk of falls at workplaces Hazardous manual tasks Managing the risk of falls in housing construction Managing electrical risks in the workplace Demolition work Excavation work 					
Details of permits, licenses or access required by regulatory bodies (add or delete as required): Permits from local council Authorisation to commence work	 Work health and safety consultation, cooperation and coordination Managing the work environment and facilities How to manage work health and safety risks Managing risks of plant in the workplace Construction work 					

- Any required documents.



SIGNATORIES OF THE SAFE WORK METHOD STATEMENT

The signed and dated personnel listed below have cooperated in the consultation and development of this Safe Work Method Statement which has been approved by the Person/s Conducting a Business or Undertaking (PCBU). In signing this Safe Work Method Statement each individual acknowledges and confirms that they have read this SWMS in full, having raised any questions for items on this Safe Work Method Statement that require clarification, and confirms that they are competent, skilled and knowledgeable for the task assigned to them. Every person acknowledges that they have received the relevant training and qualifications where required, before carrying out any work contained in this Safe Work Method Statement. By signing this Safe Work Method Statement each individual agrees to work safely, to follow any safe work instructions which are provided, and agrees to use all Personal Protective Equipment where appropriate.

Worker Name	Position	Signature	Date	Time	Supervisor
			Date:		
			Dat		
			t te:		
			Date:		

SAF WC A STHUD STATEMENT MONITORING AND REVIEW

The SWMS must be reviewed regularly to review the sure it remains revised if necessary) if relevant control measure are a conconsultation with workers (including contractors are subcontract of the SWMS and their health and safety representatives who re workplace.

ke sure it remains effective and must be reviewed (and acception of the process should be carried out in s any subcontract s) who may be affected by the operation esentatives who recented that work group at the

When the SWMS has been revised the PCBU must ensure that all persons involved with the work are advised that a revision has been made and how they can access the revised SWMS, including all persons who will need to change a work procedure or system as a result of the review are advised of the changes in a way that will enable them to implement their duties consistently with the revised SWMS. All workers that will be involved in the work must be provided with the relevant information and instruction that will assist them to understand and implement the revised SWMS.

The SWMS must be monitored regularly for the effectiveness of ensuring hazard controls are effective in reducing the risk of incidents, keeping the workplace safe for all personnel. The person responsible for monitoring the effectiveness of the Safe Work Method Statement should employ a multi-faceted approach which includes but is not limited to:

- 1. Spot Checks.
- 2. Consultation with workers, contractors and sub-contractors.
- 3. Internal audits on a continual basis.

An approach of continuous improvement, promptly recording inconsistencies or deficiencies, followed up by immediate corrective action and consultation with all relevant personnel ensures that the PCBU is consistently developing ever-improving systems of safe work principles.

REVIEW NUMBER	1	2	3	4	5	6	7
NAME							
INITIALS							
DATE							



SAFE WORK METHOD STATEMENT REVIEW CHECKLIST

This Safe Work Method Statement Review Checklist is to be followed and used upon initial development of the SWMS to help ensure that all steps have been adequately taken before work commences. Think of this document as an internal audit review checklist before commencing work, and may form part of a Toolbox Talk (safety meeting) and may be used as an opportunity for education and training.

ITEMS WHICH MUST BE INCLUDED IN THE SWMS	COMPLETED	TO BE DONE	COMMENTS
The company details have been entered, including the project name and address.			
Names and signatures of all relevant personnel consulted during the development of the SWMS.		P	
Name, signature, position and date signed of the person approving the SWMS.			
Specific personnel and qualifications, experience is noted in the SWMS.			
Provides a step-by-step process of tasks required to carry out the activity or task.			
Adequate risk assessment of any identified hazards has been completed.			
Foreseeable hazards are identified and documented for each step.			
Any hazards listed in any site risk assessments have been added to the SWN			
SWMS initial risk (IR) column as well as residual risk (RR) columns completed.			
Check control measures added to the SWMS are the most effecting sections.			
Responsible person is assigned and listed on the SWMS for the imement of cont, measures.			
Permit requirements specified, such as Hot Wey, Electrical Work, Verat Heights etc.			
SWMS identifies plant and equipment to be up t.			
Details of inspection checks required for any equipment listed approved on the SWMS.			
Describes any mandatory qualifications, experience vaining skills required to perform the work.			
Applicable personal protective equipment is selected on the SWMS.			
Lists any required permits or licenses.			
Reflects and documents any legislative references and/or Australian Standards.			
Identifies any hazardous substances used with specific control measures in line with any SDS.			
			·
REVIEWED BY	DATE RI	EVIEWED	
SIGNATURE	DATE CO	MPLETED	