



Project Specific Risks

Document No:	SAS0012-1
Document Type	Form
Revision	2
Effective Date	3 June 2020
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ESKOM PROJECT MANAGER	
PROJECT	Cooling Water (CW) Pumps Control system PLC Upgrade
PURCHASE ORDER/CONTRACT NUMBER/	N/A
CONTRACTOR NAME	N/A
CONTRACTOR CONTACT PERSON	N/A
CELL No.	N/A
DATE	05 August 2025

No	Hazard	Risk	Causes of Risk	Consequence	Likelihood	Risk Priority Rating
	(Example of a hazard is a manhole cover that is not in position or missing)	(Examples of risks related to the hazard are injuries or a fatality. There could be more than one risk per hazard)	Example is that someone worked there but did not replace the cover)			
1	Exposure to Dust	lung infection	dust inhalation	4	B	III
2	Exposure to Dust	Eyes injuries	dust ingress in to the eyes	2	B	IV
3	Poor housekeeping	Poor housekeeping environment will cause Slip, trip and fall injuries	Failure to observe	3	B	III
4	Exposure to sharp objects	Exposure to sharp objects will cause hands and finger injuries	Failure to wear gloves	2	B	IV
5	Poor communication	Poor communication will lead to injuries	demotivated employees	4	B	III

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6	Pinch points	finger injuries	Not paying attention to the location of hands and feet, Dropping or carelessly handling materials or suspended loads	3	B	III
7	Exposure to noise	Noise Induced Hearing Loss	Failure to wear ear protection	4	B	III
8	Uneven floor surface/ground	Uneven floor surface/ground will cause trip, slip and fall injuries	Failure to observe	3	B	III
9	Exposed to sun heat	Exposed to sun heat will cause dehydration	Failure to drink more water	3	B	III
10	Manual lifting of material (Ergonomic related)	manual lifting heavy materials can cause musculoskeletal disorders(MSD's eg neck and back injuries	Failure to use manual lifting techniques	3	B	III
11	Exposed to Inclement weather condition	Storms can cause poor visibility can increase the risk of slipping and cause serious injuries	working in inclement weather condition	4	B	III
12	Exposure to poor lighting	working in poor lighting environment will lead to trip and fall injuries	failure to provide adequate lighting	4	B	III

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Consequence criteria

Consequence rating	Description
	Health and Safety
1	No injuries or health effects(near misses)
2	First-aid treatment case, and temporary discomfort case
3	Medical treatment case; occupational disease with reversible/non-permanent effect
4	Lost Time Injury. Irreversible health effects/occupational disease with permanent consequence
5	Fatality or life threatening health effects
6	Multiple fatalities

		RISK MATRIX				
Consequences	6	I	I	I	I	I
	5	II	II	II	I	I
	4	III	III	II	I	I
	3	IV	III	II	II	I
	2	IV	IV	III	II	II
	1	IV	IV	III	III	III
			A	B	C	D
Likelihood						

Likelihood criteria

Score	Descriptor	Safety	Occupational hygiene	
			Exposure	Probability of exceeding OEL
A	Highly unlikely	<ul style="list-style-type: none"> More than a "100 year event" Exceptionally unlikely, even in the long-term future < 5% probability 	Rare (once a year)	No exposure (or exposure < 10% of OEL)
B	Unlikely	<ul style="list-style-type: none"> Could occur in "years to decades" 	Short periods of time, a few times per day/ intermittent (once in six months, three months, or a month)	Low exposure (< 50% of OEL)
C	Possible	<ul style="list-style-type: none"> Could occur within "months to years" 	Continuous for between one and two hours (often/ weekly)	Moderate exposure (chronic exposure > 50% of OEL or acute exposure ≥ OEL)
D	Likely	<ul style="list-style-type: none"> Could occur within "weeks to months" ≥ 70% and < 90% probability. 	Continuous for between two and four hours (frequent/daily)	High exposure (chronic exposure > OEL, or exposure exceeding OEL-STEL)
E	Unavoidable	<ul style="list-style-type: none"> Could occur within "days to weeks" 	Continuous for eight-hour shift	Very high exposure (chronic exposure > 2 x OEL or exposure exceeding OEL-C)

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