

Occupational Health and Safety Baseline Risk Assessment template							
Business/Operating unit:	Kendal Power Station			SOW: New H2 Plant Project		Next Review Date: NA	Template identifier: 240-70044602
Date:	17-May-25			Authorised by:	Name: Glen Mphoreng	Document identifier	
					Designation: H2 Plant System Engineer	Revision number:	5
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Refer to Occupational Health and Safety Risk assessment procedure 32-520							
List activity	Hazard identification	Associated risk	Risk type	What are the possible consequences?	Existing Controls	Control Owner	Legal and Other Requirements
List specific activities to be performed taking into consideration the equipment to be used, the personnel involved in the task.	Anything with potential to cause of harm. Note: A hazard can pose more than one risk.	A chance that injury, ill health or damage could occur as a result of uncontrolled hazard.	Safety or health	Consider the worse case scenario without controls?	Include: - Preventative Controls (controls implemented to eliminate hazards or reduce the likelihood of the risk occurring), and - Reactive Controls (controls implemented to reduce the immediate impact of the risk occurring) Elimination Substitution Engineering controls Administrative controls Personal protective equipment (PPE)	Person allocated the responsibility for implementing the agreed controls	Where applicable, add IRM system reference number for tracking of treatment actions. (applicable to risks that have an impact on business objectives or require intervention from Senior or Executive management such as implementing major engineering projects as a control)
Constructing new H2 Plant	Ash	Exposure to ash inhalation during windy season	Health	Respiratory and lung infections and/or eye irritation	Wearing of dust masks is mandatory. Induction must be provided	Contractor	OHSAct sec 13, Hazardous Chemical Substance Regulations, Annexure 1.36
	Spark	Fire	Safety	Loss of lives	Use of spark-free tools within the H2 Plant area.	Contractor	OHSAct
	Falling objects	Injury	Safety	Loss of lives	Steering clear of the area where the new H2 Plant will be placed while it is hoisted in place by crane.	Contractor	OHSAct
	Noise	Exposure to noise	Health	Noise Induced Hearing Loss	Wearing of hearing protection equipment is mandatory. Awareness in the form of toolbox talks must be provided.	Contractor	OHS Act, PSR, Noise-Induced Hearing Loss Regulation
	Hydrogen leak	Fire	Safety	Explosion and loss of lives	Properly isolate the H2 Receivers. Only use EX Rated equipment and spark-free tools.	Contractor	OHS Act, 240-56227413 Eskom Hydrogen Systems Standard