

Occupational Health and Safety Baseline risk assessment template

Business/Operating unit: Kendal Power Station	Project: Unit 5 Soothblower PLC replacement	Next Review Date (every 2 years):	Template identifier: 240-70044602
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Refer to Occupational Health and Safety Risk assessment procedure 32-520

<i>List activity</i>	<i>Hazard Identification</i>	<i>Associated risk</i>	<i>Risk type</i>	<i>What are the possible consequences?</i>	<i>Existing Controls</i>	<i>Control Owner</i>	<i>Legal and Other Requirements</i>
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: - <u>Preventative Controls</u> (controls implemented to eliminate hazards or reduce the likelihood of the risk occurring), and - <u>Reactive Controls</u> (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 relevant, list the relevant legislative and or Eskom requirements that prescribe the control.
Removal of obsolete PLC and installation of modern PLC and associated hardware	Noise	Exposure to excessive noise	Health	Noise induced hearing loss	Communication (hazard awareness),Medical surveillance program, Training: General Safety, Personal protective (hearing) and signage	Client/ Contractor	OHSA s8(2)(d) ,GMR 3,NIHL Reg 3-13,SANS 10083, procedure 32-136
	Dust	Exposure to excessive Ash dust	Health	Nasal irritation, Occupational disease, Respiratory disease	Plant maintenance, Communication (hazard awareness),Noise surveys, dust suppression,medical surveillance, Training: General Safety, PPE including respiratory protection	Client/ Contractor	OHS Act s13,OHSA s8(2)(b,c,d,e),GSR 2,procedure 32-136
	Dust	Exposure to excessive coal dust in the plant	Health	Nasal irritation, Occupational disease, Respiratory disease, silicosis	Risk Assessment, Plant maintenance, Communication (hazard awareness), dust suppression, Dust surveys, medical surveillance, Training: General Safety, PPE including respiratory protection	Client/ Contractor	OHS Act s13,OHSA s8(2)(b,c,d,e),GSR 2,procedure 32-136

	Illumination	Exposure to poor illuminated areas	safety	slip trip and fall Injuries, eye strain	Risk Assessment, Plant maintenance, illumination survey, Communication (hazard awareness), use of portable lights	Client/ Contractor	ERW,OHSA s8(2)(b,c,d,e),OHSA s13, procedure 32-136
	Live Electrical Plant	Exposure to live plant, exposed wires, non-isolated plant, working on wrong panel	Safety	Electric shock that may lead to serious burn injuries and/or fatality	Permit To Work Required, Usage of correct working tools, Hazard awareness, Induction training, PPE	Contractor/Client	OHSA sec 13, EMR and EIR, GSR 2, PSR
	Sharp edges	Exposure to sharp edges from equipment and steel structure	Safety	Injuries i.e. cuts, bruising/contusion	Risk assessment , Hazard Awareness, appropriate PPE including (gloves)	Contractor/Client	OHS Act 13, GSR 2
	Uneven surfaces, gratings, trenches	slip trip and fall, falling into the trench	Safety	Fracture, injuries, fatality	Plant maintenance and cleaning ,Communication (hazard awareness),Guarding/barriers/rails ,Training: General Safety, signage and notices, PPE,	Client/ Contractor	OHS Act s13,OHSA s8(2)(b,c,d,e,f),GMR 3, DMR 2,GSR 2 ,ERW 6
	Cables , tools and equipment	Slip trip and fall incident due to poor housekeeping	Safety	Injuries	All cables be put at the side where employees are not walking, tools not in use to be properly placed, good housekeeping practices .Communication (hazard awareness),Barricading an signage, Training: General Safety,PPE	Client/ Contractor	OHSA s8(2)(b,d,e,f), ERW 6, GSR 2,procedure 32-136
	Stairs	Ascending and Descending Stairs, tripping and falling through defective grating	Safety	injuries, Fractures	Plant maintenance and defect reporting, Communication (hazard awareness three point contact), notices and signage, Guarding/barriers/rails ,PPE	Client/ Contractor	OHS Act s13,OHSA s8(2)(b,c,d,e,f),GSR 2,procedure 32-136
	Wet or slippery floor conditions(plant and control rooms)	slips and fall	safety	injury, contusion	Cleaning of plant. Cleaning and good housekeeping of work areas .Communication (hazard awareness),Guarding/barriers/rails ,Training: General Safety,PPE, signage	Client/ Contractor	OHSA s8(2)(b,d,e,f), ERW 6,SANS 10400, GRS 2,procedure 32-136
	Heat , hot surfaces	Exposure to heat & hot surfaces in the plant	safety / health	Thermal Burns, injuries, heat stroke	Plant Insulated, Plant maintenance and defect system, Risk assessment, Communication (hazard awareness), Guarding/barriers/rails , notices and signage, Consumption of liquid, job rotation, rest breaks, PPE .	Client/ Contractor	OHS Act s13,ERW,GSR 2,OHSA s8(2)(b,c,d,e),f, Eskom PSR
	Cold Weather	Exposure to low temperatures (winter)	Health	Shivering, Frost bite, cold and flue and hypothermia.	Hazard awareness, Wearing warm clothing inside of overalls. Warm winter jacket are warn when working outside in winter.	Client/ Contractor	OHS Act sec13, Environmental Regulations in workplaces 5
Driving, Transportation of employees	Road conditions, potholes, curves, road construction, road works, bends, steep heels, rail crossings	Unfavourable road conditions , curves, road construction, road works, bends, steep heels, rail crossings causing loss of control of the vehicle	Safety	Vehicle accidents which will result in multiple injuries and/or fatalities as well as property damage.	Awareness during SHEQ meetings/ tool box talks/ lessons learned/ road safety campaigns/ Driver risk evaluation/Defensive & advance driving training. Pre inspections, Trip Risk Assessment	Client/ Contractor	Road traffic act, OHS Act. Vehicle Safety 240-69946.
	Night time driving	Vehicle accidents	Safety	Vehicle accidents which will result in multiple injuries and/or fatalities as well as property damage.	Awareness during SHEQ meetings/ tool box talks/ lessons learned/ road safety campaigns/ Driver risk evaluation/Defensive & advance driving training , fatigue management/ rest periods	Client/ Contractor	Road traffic act, OHS Act. Vehicle Safety 240-69946.

	Weather conditions , Mist/Fog/heavy rain	Unfavourable weather conditions due to Mist/Fog/heavy rain	Safety	Vehicle accidents which will result in multiple injuries and/or fatalities as well as property damage.	Awareness during SHEQ meetings/ tool box talks/ lessons learned/ road safety campaigns/ Driver risk evaluation/Defensive & advance driving training, wait up until the mist is clear. Use alternative routes.	Client/ Contractor	Road traffic act, OHS Act. Vehicle Safety 240-69946.
	Road users, pedestrians and/or stray animals	Unfit road users , vehicles Colliding with pedestrians and/or stray animals	Safety	Collision that result in accidents with multiple injuries and/or fatalities.	Awareness during SHEQ meetings/ tool box talks/ lessons learned/ road safety campaigns/ Driver risk evaluation/Defensive & advance driving training	Client/ Contractor	Road traffic act, OHS Act. Vehicle Safety 240-69946.
	Driving vehicle	Incompetent or Fatigued driver	Safety	Loss of control to the vehicle due to fatigue. Collision with other vehicles	Management of working hours and rest periods. Awareness during SHEQ meetings/ tool box talks/ lessons learned/ road safety campaigns/ Defensive & advance driving training	Client/ Contractor	Road traffic act, OHS Act. Vehicle Safety 240-69946.