




Eskom			TITLE: SHE RISK REGISTER SHEET		Reference No.: KFV-SR-050	Zero Harm Be aware. Take care.								Zero Harm Be aware. Take care.												
INSPECTION & TEST; DOCUMENT REV NUMBER 0 (2023/2024)																										
Department	Group	Id number	Activity / Product / Service / Process / System	Process Flow/Characteristics of products/systems	Environmental Aspect Identified/Hazard Identified	Environmental Impact Identified/Risk Identified	Risk Category	Initial Frequency	Initial Probability	Initial Severity	Initial Risk Value	Initial Risk Classification	Mitigation/Risk Control Measures	Legal and Other Requirements	Frequency	Probability	Severity	Final Risk Value	Final Risk Classification	Completed By:	Reviewed By:	Authorised By:	Date:			
													Although captured in the mitigations below, prior to performing ANY activity, ALWAYS consider the following: <b>HP TOOLS</b> , i.e. situational awareness, self checking, pre-job / post job brief, peer checking, procedure use, place-keeping, questioning attitude, effective communication, coaching, handover and authorisation and knowledge; <b>OTHER CONTROLS</b> , i.e. monitoring, measurement & inspection; Operational control i.e. procedures; SHE programme; Engineering control etc.	Applicable Legal & other requirements & applicable sections (Eg: National Environmental Management Waste Act no. 59 of 2008, Section 19); National water act, Section X; National Environmental Management Act, Section Y, Occupational Health and Safety Act No. 85 of 1983 section 8 General duties of employers to their employees)												
													OPERATIONAL CONTROLS													
													Elimination/Substitution (i.e. performing work at ground level instead of working at heights, replacing a hazardous chemical substance with a less hazardous chemical substance etc.)										Engineering Controls (i.e. machine guarding, bundwalls, physical barriers, fencing, drip trays, leak tight tanks, sumps etc.)	Administrative Controls (i.e. monitoring and measurement, procedures, training, safety signage, worker rotation, observations, inspections, SHE Talks etc.)	Personal Protective Equipment (i.e. gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles, breathing apparatus, respirators etc.)	
Plant Engineering	I&T	ACT 001	Viper Diagnostic testing	Opening and closing of cover	Falling / crushing	Injury	P	0.5	0.0	1.0	1.5	Very Low Risk	Working procedure, PTW in force,	Observation feedback, incident trending	Ensure scaffold is safe to work on and has a green tag, wear correct PPE, 2 man rule, HP tools, OE, Pre-Job Brief, Must have valid authorisation. Wearing of safety harness if required.	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his employees.	0.5	0.0	1.0	1.5	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 001	Viper Diagnostic testing	Loosening of allen screws	Falling	Equipment damage	A	0.5	0.0	1.0	1.5	Very Low Risk	Working procedure, use the correct handtools, using maintenance bag as a catch	Observation feedback, incident trending	Activity to be performed by authorised persons, HP tools, OE, 2 man rule	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles	OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work Every employee shall at work	0.5	0.0	1.0	1.5	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 001	Diagnostic testing	Connect / disconnect to live wire component	Electrical hazard	Injury, fatality	P	1.5	0.0	4.0	5.5	Medium Risk	Working procedure, use the correct tools, ensure insulation is intact, use of rubber mat.	Observation feedback, incident trending	Activity to be performed by authorised persons, use of arc flash PPE, HP tools, OE	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles	OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work Every employee shall at work	1.5	-0.5	3.0	4.0	Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 001	Viper Diagnostic testing	Retrieving data off Rotork nameplate	Head / neck Injury	Injury	P	0.5	0.0	1.0	1.5	Very Low Risk	Working procedure, Use a torch in cases of poor lit areas.	Observation feedback, incident trending	Activity to be performed by authorised persons, 2m Rule, Situational awareness, OE, pre job brief. Correct PPE	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles	OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work Every employee shall at work	0.5	0.0	1.0	1.5	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 002	Inspections and tests in diesel rooms	Entry into CO2 hazard areas	Asphyxiation (CO2)	Illness, fatality	P	1.0	-0.5	5.0	5.5	Medium Risk	Use a calibrated and functional Oxygen monitor,staff entering the diesel rooms to take note of the inline CO2 readings at the entrance,	Observations, CO2 suppression system to be properly inspected and maintained to prevent leaks or inadvertant discharge of CO2 bottles,	Staff who have access to the diesel rooms must have undergone the specific training, Evacuate area immediately if O2 monitor alarms or CO2 system activates, HP tools, OE, comply to PPE requirements, 2 man rule applicable	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles,calibrated and functional Oxygen monitor	OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work Every employee shall at work	1.5	-0.5	3.0	4.0	Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 002	Inspections and tests in N2 areas	Entry into N2 hazard areas including vessels	Asphyxiation (N2)	Illness, fatality	P	1.0	-0.5	5.0	5.5	Medium Risk	PTW in force for any intrusive work, Use a calibrated and functional Oxygen monitor, confined space entry requirements applies where applicable (SAC)	Observation feedback, incident trending	2-man rule, PPE, HP tools, OE,	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles,calibrated and functional Oxygen monitor	OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work Every employee shall at work	1.0	0.0	2.0	3.0	Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29

Plant Engineering	I&T	ACT 002	Inspections and tests in Heatstress areas	Activities in Heat stress areas	Heat stress, heat exhaustion, heat stroke, hot surfaces, steam	Illness, burns	P	1.0	0.0	3.0	4.0	Low Risk	PTW in force / LAR, SAC issued to RP, RP to ensure that all staff comply with Man Dir 72	Observation feedback, incident trending, Intake of fluids prior to start of work, take rest periods	All staff to be certified as Heat Stress workers, workers briefed by RP, correct PPE to be worn (long sleeve coveralls and gloves to protect against hot surfaces), 2-man rule, HP tools, OE	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles	Occupational Health and Safety Act, 1993 (Act No. 16 of 1993), Regulation 2(4) of the ERW: (Thermal Requirements).	1.0	0.0	2.0	3.0	Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 002	Inspections and tests in controlled zone	Exposure to radiation	Ionising radiation	Illness	P	2.5	-0.5	5.0	7.0	High Risk	Use Valid RPC, RP in attendance when required, Wearing of dosimetry (EPD/TLD), Use RADEYE,	Management of exposure and dose tracking, (dose champion)	Activity to be performed by authorised person (RADWORKER), conform to all requirements of the relevant RPC, ALARA principles (time, distance, shielding), Radworker training. HP tools, OE. Reading of Signposting	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles	OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work	2.5	-0.5	1.0	3.0	Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 003	Inspections and tests in H2 (HAZLOC) areas	Entry into H2 hazard areas without intrinsic tools	Explosion	Equipment damage, injury, fatality	A	1.0	1.0	5.0	7.0	High Risk	KLA-027 (Area Classification og Hazloc areas). Use of intrinsic tools.	Use gas detectors to monitor	Activity to be performed by authorised persons, HP tools, OE, Pre Job brief, Hazloc Training, display Risk Assessment. Reading of Signposting, Adherence to KLA-027	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles,calibrated and functional Oxygen monitor	OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work	0.5	0.0	2.0	2.5	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 003	Inspections in Confined Spaces in Controlled zones	Confined space entry	Corrosive substances that can cause chemical burns. Ionising radiation, Asphyxiation, Falling, tripping and slipping	Injury, chemical burns.Illness and contamination	P	1.0	-0.5	5.0	5.5	Medium Risk	PTW in force, obtain a SAC prior to entry into vessel, Use a calibrated and functional Oxygen monitor, Use Valid RPC, RP in attendance when required, Wearing of dosimetry (EPD/TLD), Use RADEYE,	Observation feedback, incident trending, hole watch in place, System effectively drained and vented prior to the start of work, vessel flushed or cleaned prior to entry	Display Risk Assessment chart, confined space training, correct chemical proof PPE to be worn (coverall, faceshield, safety specs, gloves & respirator where required), HP tools, OE, use of accountability log, Low voltage lighting Use of correct RPC. Reading of Signposting	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles,calibrated and functional Oxygen monitor	OHSAct section 9 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work	1.0	-0.5	3.0	3.5	Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 003	Inspections in Confined Spaces in Non-Controlled zones	Confined space entry	Corrosive substances that can cause chemical burns. Asphyxiation, Falling, tripping and slipping	Injury, chemical burns.Illness	P	1.0	-0.5	5.0	5.5	Medium Risk	PTW in force, obtain a SAC prior to entry into vessel, Use a calibrated and functional (Bump tested) Oxygen monitor,	Observation feedback, incident trending, hole watch in place, System effectively drained and vented prior to the start of work, vessel flushed or cleaned prior to entry	Display Risk Assessment chart, confined space training, correct chemical proof PPE to be worn (coverall, faceshield, safety specs, gloves & respirator where required), HP tools, OE, use of accountability log, Low voltage lighting.	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles,calibrated and functional Oxygen monitor	OHSAct section 9 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work	1.0	-1.0	3.0	3.0	Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 003	Inspections in Confined Spaces	Confined space entry	Foreign Material Inclusion	Plant Damage, Production Loss	A	1.0	0.5	5.0	6.5	Medium Risk	FME controls	Hole watch in place	Accountability log	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles,calibrated and functional Oxygen monitor	OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work	1.0	-0.5	3.0	3.5	Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 004	Filter testing	Transport / storage / Disposal of source	Ionising radiation	Illness	P	2.0	1.0	0.0	3.0	Low Risk	Source transported in lead container. Source kept under lock and key by RPM	Ensure RP is in attendance and RP requirements are met, Monitor dosimetry, limit over-exposure. RP wearing Dosimetry (EPD&TLD)	Activity to be performed by authorised staff (source handler), HP tools, required PPE, OE. Conform to all requirements of the RPC. Good ALARA Practices	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles	OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work	2.0	1.0	0.0	3.0	Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 004	Filter testing	Transport / storage / Disposal of source	Damage to holder and container	Equipment damage	E	2.0	-0.5	4.0	5.5	Medium Risk	Place lead holder in a sealed plastic container and red bag. Use trolley for transportation of source. Source kept under lock and key by RPM.	Ensure RP is in attendance and RP requirements are met, Wearing dosimetry equipment (EPD& TLD)	Activity to be performed by authorised staff (source handler / material handling), use the correct RPC, HP tools, PPE, OE.	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles	OHSAct section 9 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work	2.0	-0.5	1.0	2.5	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 004	Filter testing	Milking mother source / injection	Ionising radiation, Contamination	Illness	P	2.0	1.0	0.0	3.0	Low Risk	Use Lead shield syringes.	Observation feedback, incident trending, ensure RP is in attendance and RP requirements are met, Monitor dosimetry(EPD&TLD), limit over-exposure.	Activity to be performed by authorised staff (source handler), use the correct RPC, HP tools, PPE, OE.	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles	OHSAct section 9 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work	2.0	1.0	0.0	3.0	Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 004	Filter testing	Injection into system	Ionising radiation, Contamination	Illness	P	2.0	0.0	2.0	4.0	Low Risk	Procedure use, use a valid RPC. Double verification	Pre-system survey and final checks prior to injection	Procedure use PTW in force (verification with OPS), PPE, OE, Pre Job Brief, Self verification, peer checking	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles	OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work	0.5	-0.5	2.0	2.0	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29

Plant Engineering	I&T	ACT 004	Filter testing	Removal of Source after test	Airborne Contamination	Illness	P	2.0	0.5	3.0	5.5	Medium Risk	Sampling of Glovebox Airspace prior to removing source	RP in attendance and use of RP instruments	Procedure use and adherence	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles	OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work	0.5	-0.5	3.0	3.0	Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 005	Testing	Handling of gauges	Damage to gauges	Equipment damage	A	2.5	0.5	1.0	4.0	Low Risk	Using of correct hand tools, gauges to be transported in carry case.	Observation feedback, incident trending	Activity to be performed by authorised persons, HP tools, OE, Pre job brief	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles	OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work	2.5	0.0	0.0	2.5	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 005	Testing	Handling of gauges	Fitting of gauges to incorrect locations on plant.	Injury	P	2.5	0.5	3.0	6.0	Medium Risk	Procedure use, Using of correct hand tools	Observation feedback, incident trending	Activity to be performed by authorised persons,HP tools, PPE, OE, Pre job brief	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles	OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work	2.5	-1.0	1.0	2.5	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 005	Testing in Controlled zones	Fitting of gauges	Spillage of contaminated water	Contamination	P	2.5	1.0	1.0	4.5	Low Risk	Procedure use, use of paper towel.	Observation feedback, incident trending, adhere to RP requirements,	Activity to be performed by authorised persons, HP tools, PPE, OE, Pre job brief	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles	NEM: Waste Act 59 of 2009 - measures to reduce amount of waste generated, re-use/ recycle/recover in environmentally friendly manner prior to treated/disposed of in safe manner; action 16: General duty in respect of waste management; Section 27: Littering; NEMA Principles 52: 28. Duty of care and remediation of environmental damage, Cape Town Metropolitan Municipality: Integrated Waste Management by Law.	2.5	0.0	0.0	2.5	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 006	Working in I&T vault	Document control	Release of Halon gas	Injury, illness, fatality, Asphyxiation	P	2.0	-1.0	4.0	5.0	Medium Risk	Mobile phone when entering vault area	Use gas detectors to monitor	Adhere to specific conditions before entering vault area, HP tools, OE.	PPE usage where applicable	OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work	2.5	-1.0	1.0	2.5	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 007	Using ladders	Use of ladders in areas other than the plant < 2m	Falling from ladder	Injury	P	2.0	0.0	3.0	5.0	Medium Risk	Maintain 3-point contact, ensure ladder is adequately supported, Ladders to be fixed with non-skid devices.	Inspection of ladders.	Wearing of correct footwear when accessing ladders, HP tools, OE. Ladder training, Use medically fit staff to perform task,	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles	Occupational Health and Safety Act, 1993 (Act No. 95 of 1993) Regulation 14 of the Construction Regulations (Scaffolding), General Safety Regulation 13a: (Ladders), SANS 10085 (The Design, Erection, Use and Inspection of Access Scaffolding), Working at Height Procedure 32-415.	2.0	-0.5	1.0	2.5	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 007	Using ladders	Use of Cat ladder during Inspections & Tests	Falling from ladder /danger of dropping tools	Injury	P	2.0	0.0	3.0	5.0	Medium Risk	Maintain 3-point contact, ensure ladder is adequately supported, using of lanyards or bags to secure tools	Inspection of ladders.	Wearing of correct footwear when accessing ladders, HP tools, OE. Ladder training, Use medically fit staff to perform task	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles	Occupational Health and Safety Act, 1993 (Act No. 95 of 1993) Regulation 14 of the Construction Regulations (Scaffolding), General Safety Regulation 13a: (Ladders), SANS 10085 (The Design, Erection, Use and Inspection of Access Scaffolding), Working at Height Procedure 32-415.	2.0	-0.5	1.0	2.5	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 008	Operating vault doors	Entry / exiting the vault	Heavy Vault door	Injury	P	2.5	0.0	1.0	3.5	Low Risk	Switching from auto to manual (Follow instruction).	Ensure that door is in working condition before entering	Read instructions before using door		OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work	1.5	-1	1.0	1.5	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 009	Hydro testing	Filling and venting of vessels	Overfilling of vessels	Equipment damage	A	1.5	0.5	1.0	3.0	Low Risk	Working procedure, SFT	Continuous checking while vessel is filling	Ensure not to overpressurise as per the max permissible operating pressure		OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work	1.5	0.0	0.0	1.5	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 009	Hydro testing	Hydraulic pressurisation of water in vessels and systems	Rupture / leak / over-pressurisation	Injury	P	1.5	0.5	2.0	4.0	Low Risk	Working procedure, SFT in force	Observation feedback, Incident trend analysis	Must have valid authorisation and understanding of working with high pressure test M&TE,		OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work	1.5	0.0	0.0	1.5	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 009	Hydro testing	Hydraulic pressurisation of water in vessels and systems	Rupture / leak / over-pressurisation	Plant Damage, Production Loss	A	1.5	0.5	3.0	5.0	Medium Risk	Working procedure, SFT in force	Continuous checking while vessel filling	Ensure not to overpressurise as per the max permissible operating pressure		OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work	1.5	0.0	0.0	1.5	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29

Plant Engineering	I&T	ACT 010	Pneumatic testing	Pneumatic pressurisation of air / gas	Explosion	Injury, fatality	P	0.5	-0.5	5.0	5.0	Medium Risk	Working procedure, SFT in force	Observation feedback, Incident trend analysis	Must have valid authorisation and understanding of working with high pressure test M&TE.	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles	OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work	1.0	-1.0	3.0	3.0	Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 010	Pneumatic testing	Pneumatic pressurisation of air / gas	Explosion	Equipment damage	A	1.0	0.0	5.0	6.0	Medium Risk	Working procedure, SFT in force	Incident trend analysis	Must have valid authorisation and understanding of working with high pressure test M&TE.	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles	OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work	1.0	-1.0	3.0	3.0	Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 011	Radiography inspection	(X-Ray) Preparation	Actuating Energy	Illness	P	1.5	0.5	4.0	6.0	Medium Risk	Valid RPC, Working Procedure, PTW in force, barricading of area	Use of barrier watchers and ensure that Radiation Protection requirements are met.	Activity to be performed by authorised persons, apply ALARA, RP in attendance, HP tools, PPE, OE. Pre-job brief, Controlled use of sources. Adhere to all RPC requirements	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles	OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work	1.5	-1.0	2.0	2.5	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 011	Radiography inspection	(Gamma) Preparation	Incorrect Pigtail coupling causing exposure to ionising radiation	Illness	P	1.5	0.0	4.0	5.5	Medium Risk	Valid RPC, Working Procedure, PTW in force, barricading of area	Use of barrier watchers and ensure that Radiation Protection requirements are met.	Activity to be performed by authorised persons, apply ALARA, RP in attendance, HP tools, PPE, OE. Pre-job brief, Controlled use of sources. Adhere to all RPC requirements	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles, film badge dosimeter, EPD, TLD	OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work	1.5	-1.0	2.0	2.5	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 011	Radiography inspection	X-Ray / Gamma Exposure	Entering barricaded area, exposure to ionising radiation	Illness, fatalities	P	1.5	0.5	5.0	7.0	High Risk	Valid RPC, Working Procedure, PTW in force, barricading of area	Use of barrier watchers and ensure that Radiation Protection requirements are met.	Activity to be performed by authorised persons, apply ALARA, RP in attendance, HP tools, PPE, OE. Pre-job brief, Controlled use of sources. Adhere to all RPC requirements	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles, film badge dosimeter, EPD, TLD	OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work	1.5	-0.5	1.0	2.0	Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 011	Radiography inspection	Retraction of source	(Gamma) source stuck in guide tube	Illness, fatalities	P	1.5	0.5	5.0	7.0	High Risk	Valid RPC, Working Procedure, PTW in force, retrieval tools, barricading of area	Use of barrier watchers and ensure that Radiation Protection requirements are met.	Activity to be performed by authorised persons, apply ALARA, RP in attendance, HP tools, PPE, OE. Pre-job brief, Controlled use of sources. Authorised source handler. Adhere to all RPC requirements	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles, film badge dosimeter, EPD, TLD	OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work	1.5	-0.5	1.0	2.0	Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 012	Discarding of used oil/ NDT consumables	Discarding of used oil/ NDT consumables	Contamination of ground water	Water / soil pollution	E	1.0	0.0	2.0	3.0	Low Risk	Contact Waste & Horticulture section for removal of used oils, used oils to be dumped at oil stores, keep oil waste separate from other waste	Waste Control sheet.	OE, HP Tools, good housekeeping	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles	NEM: Waste Act 59 of 2009 - measures to reduce amount of waste generated, re-use, recycle/recover is environmentally friendly manner prior to treated/disposed of in safe manner; action 16: General duty in respect of waste management; Section 27: Littering; NEMA Principles S2, 28. Duty of care and remediation of environmental damage, Cape Town Metropolitan Municipality; Integrated Waste Management by Law.	1.0	-0.5	1.0	1.5	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 013	Use of handtools	Activities with handtools	Injuries to personnel	Injury	P	2.5	1.0	3.0	6.5	Medium Risk	Inspect hand tools for damage before use, store handtools in storage area after use	Handtools to be on a checklist and maintained in good working condition, Incident trend analysis	Activity to be carried out by trained staff, use handtool for intended purpose, HP tools, OE. Use of correct tools, use correct PPE.	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles	OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work	2.5	0.0	2.0	4.5	Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 013	Use of handtools	Activities with handtools	Damage to plant equipment	Equipment damage	A	2.5	1.0	2.0	5.5	Medium Risk	Correct transportation of handtools	Handtools to be on a checklist and maintained in good working condition	Activity to be carried out by trained staff, use handtools for intended purpose, HP tools, OE. Use of correct tools	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles	OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work	2.5	0.0	1.0	3.5	Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 014	Work on Scaffolding and at heights	Inspections & Test	Falling object or Person falling off scaffolding	Injury, fractures, fatalities	P	2.0	-0.5	5.0	6.5	Medium Risk	Scaffolding to be complete with handrails & kickboards, area barricaded as required	Scaffolding inspected regularly.	Scaffolding erected by skilled person, valid green tag must be on scaffold, wear relevant PPE, wear safety harness for heights > 2 m, HP tools, OE, RP requirements wrt scaffolding to be complied with.	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles, safety harness	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) Regulation 14 of the Construction Regulations (Scaffolding), General Safety Regulation 13a: (Ladders), SANS 10085 (The Design, Erection, Use and Inspection of Access Scaffolding), Working at Height Procedure 32-415.	2.0	-1.0	3.0	4.0	Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 015	Working in areas with low ceilings or limited head room	Walking, standing, working	Bumping head, back injury	Injury	P	2.0	-0.5	2.0	3.5	Low Risk	Use a torch in cases of poor lit areas.	Incident trend analysis	Correct PPE, OE, 2 M Rule, HP Tools, Staff to be Medically fit, Adhere to signposting	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles	OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work	2.0	-1.0	1.0	2.0	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 016	Driving of Eskom insured vehicles	Driving of vehicles	vehicle accidents resulting in damage to vehicles and equipment	Damage to vehicles	A	1.5	0.5	1.0	3.0	Low Risk	Vehicles in road worthy condition, obeying of traffic laws, ABS brakes.	Incident trend analysis, pre-trip checks.	Drive defensively, be sober. Do not drive when fatigued.		National Road Safety Act. ESKOM Procedure 32-93 (Vehicle and driver safety management), ESKOM Procedure 36-585 (Vehicle safety and transportation management)	3.0	0.0	1.0	4.0	Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 016	Driving of Eskom insured vehicles	Driving of vehicles	Vehicle accidents	Injury, fatalities	P	2.5	0.5	5.0	8.0	High Risk	Vehicles in road worthy condition, obeying of traffic laws, use of seat belts by both driver and passengers, ABS brakes, airbags and DRIVE CAMS	Incident trend analysis, pre-trip checks, DRIVE CAM	Eskom driver evaluation complete, drive defensively, be sober and buckle up at all times. Do not drive when fatigued.		National Road Safety Act. ESKOM Procedure 32-93 (Vehicle and driver safety management), ESKOM Procedure 36-585 (Vehicle safety and transportation management)	2.5	-0.5	2.0	4.0	Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29



Plant Engineering	I&T	ACT 017	Transport of equipment	Lifting, pushing and pulling of equipment	Injury to personnel	Injury	P	2.5	0.0	4.0	6.5	Medium Risk	Make use of trolleys to transfer equipment	Incident trend analysis	HP tools, PPE, OE, correct posture and ergonomics Materials handling training		OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his; Section 14. General duties of employees at work	2.5	0.0	3.0	5.5	Medium Risk	J. Pieteresen	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 018	Exposure to noise environments	Plant inspections, surveys, walkdowns, investigations and monitoring	Noise exposure greater than 85dB	Noise Induced Hearing Loss, temporary threshold shift	P	2.5	1.0	5.0	8.5	High Risk	Comply with MAN DIR 009, Man-job specification to reflect correct noise levels.	Regular audiometric tests,	Wear the correct PPE (earplugs/ ear muffs), ensure earplugs are inserted correctly, HP tools, pre-job brief, STAR, OE , double hearing protection in areas where required. Adhere to all signposting.	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993). Noise Induced Hearing Loss Regulations 3.5.8.9. SANS 1083 (Code of practice for Measurement and Assessment of Occupational Noise for Hearing Conservation Purposes).	2.5	-0.5	0.0	2.0	Low Risk	J. Pieteresen	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	Act 019	Waste Management	Ensuring that all waste generated is properly disposed of	Pollution to environment	Pollution, littering	E	0.5	1.0	1.0	2.5	Very Low Risk	Procedure KAE-012 (Waste management); Supply sufficient bins, separate and designated bins for generated waste (E.g. paper, plastic, batteries, printer cartridges, etc);	Waste control sheet to be in place and updated	All waste to be properly disposed of ; educate all staff in the separation of waste		NEM: Waste Act 59 of 2009 - measures to reduce amount of waste generated, re-use/ recycle/recover in environmentally friendly manner prior to treated/disposed of in safe manner; action 16: General duty in respect of waste management. Section 27: Littering; NEMA Principles S2: 29. Duty of care and	0.5	1.0	0.0	1.5	Very Low Risk	J. Pieteresen	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	Act 020	Office Activities and ergonomics at workstations	Working on PC's, sitting position, use of mouse and keyboard, general activities in the office	Poor ergonomics	Work related to back, upper limb disorders, repetitive strain syndrome, carpal tunnel syndrome	P	2.0	0.5	2.0	4.5	Low Risk	Ergonomically designed chair, correct handling of materials, situational awareness.	Avoid long working sessions (allowing relaxation of muscles). Safe practices	Correct workstation layout, ergonomic assessment of workstations, ensure correct posture when performing activities in the office. Materials handling, PPE usage where applicable	PPE usage where applicable	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) Regulation 8 of the Facilities Regulation (Seats).	2.0	-0.5	0.0	1.5	Very Low Risk	J. Pieteresen	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	Act 021	Office Fires and risks	Possibility of a fire in the office area causing harm to personnel	Flames and Smoke	Burns, injury, fatality, smoke inhalation	P	0.5	0.5	5.0	6.0	Medium Risk	Fire detection systems, fire extinguishers to be placed at allocated points. Extinguishers and reels in working condition. Updated muster list.	Extinguishers and reels to be checked on a periodic basis	Staff made aware of Evacuation routes and Muster points, Fire Marshalls appointed, Regular fire drills, good housekeeping, fire extinguisher training. Adhere to signposting		National Building Regulations and Building Standards Act, 103 of 1977: Fire protection measures; SANS 15400 and Environmental Regulation for workplaces 9: (Fire precautions and means of egress).	0.0	-1.0	2.0	1.0	Very Low Risk	J. Pieteresen	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	Act 021	Office Fires and risks	Possibility of a fire in the office area causing damage to equipment	Hazard due to fires in buildings	Property damage	A	0.5	0.5	5.0	6.0	Medium Risk	Fire detection systems, fire extinguishers to be placed at allocated points. Extinguishers and reels in working condition.	Extinguishers and reels to be checked on a periodic basis	Regular fire drills, good housekeeping, fire extinguisher training.		National Building Regulations and Building Standards Act, 103 of 1977: Fire protection measures; SANS 15400 and Environmental Regulation for workplaces 9: (Fire precautions and means of egress).	0.0	-1.0	2.0	1.0	Very Low Risk	J. Pieteresen	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	Act 022	Emergency Planning	Evacuation and mustering during emergencies	Un-accounted personnel / trapped in dangerous areas	Injury / Fatalities	p	0.0	-0.5	4.0	3.5	Low Risk	Muster supervisors visible, Signposting, Muster areas and Evacuation routes identified	Observation feedback, incident trending	Regular Emergency Exercises		OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his employees.	0	-0.5	2.0	1.5	Very Low Risk	J. Pieteresen	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	Act 023	Buffing with a grinder	Personnel shielding	sparks and metal filings	eye damage	p	1.0	0.0	3.0	4.0	Low Risk	Hot work permit, work instruction,	Observation feedback, incident trending	Appropriate PPE Pre-job brief, OE, HP tools, Authorised persons	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles	OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his employees.	1.0	0.0	2.0	3.0	Low Risk	J. Pieteresen	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	Act 024	Eddy Curent Testing	Personnel shielding	Objects becoming dislodged becoming a projectile	Bodily injury	P	0.0	-0.5	3.0	2.5	Very Low Risk	PTW in force, work instruction, A rubber matting barrier of 5mm will be placed over the existing point of the tube bundle with a maximum space of 50mm to prevent debris from existing that might pose a danger to personnel.	Tubes identified as being obstructed, shall be checked with a video probe prior to cleaning.	Appropriate Pre-job brief, OE, HP tools, Authorised persons, required PPE to be worn. The compressed air used during cleaning and Eddy Current is to be regulated to between 1 and 2 bar pressure. Proper shift hand over.	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles	OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his employees.	0.0	-0.5	1.0	0.5	Doutf Risk	J. Pieteresen	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	Act 025	High Pressure tube cleaning	Personnel shielding	Objects becoming dislodged becoming a projectile	Bodily injury	P	0.5	0.5	3.0	4.0	Low Risk	PTW in force, work instruction, A rubber matting barrier of 5mm will be placed over the existing point of the tube bundle with a maximum space of 50mm to prevent debris from existing that might pose a danger to personnel.	Tubes identified as being obstructed, shall be checked with a video probe prior to cleaning.	Appropriate Pre-job brief, OE, HP tools, Authorised persons, required PPE to be worn. The compressed air used during cleaning and Eddy Current is to be regulated to between 1 and 2 bar pressure. Proper shift hand over.	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles	OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his employees.	0.0	-0.5	1.0	0.5	Doutf Risk	J. Pieteresen	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	Act 026	High Pressure tube cleaning	Damage to plant	Objects becoming stuck	Damage to plant	A	0.5	0.5	4.0	5.0	Medium Risk	PTW in force, work instruction	Tubes identified as being obstructed, shall be checked with a video probe prior to cleaning.	OE, HP tools, The compressed air used during cleaning and Eddy Current is to be regulated to between 1 and 2 bar pressure. Proper shift hand over.	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles	OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his employees.	0.0	-0.5	3.0	2.5	Very Low Risk	J. Pieteresen	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	Act 027	Acending and decending stairs	Personnel injury	Twisting and turning of back, legs and posture	Injury, fatality	P	2.5	1.0	3.0	6.5	Medium Risk	Use of handrails, non-slip surface on all steps.	Incident trend analysis	Be cautious when ascending/ descending staircase, Situational awareness, one hand free for using handrail, OE		OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his employees.	2.5	-0.5	2.0	4.0	Low Risk	J. Pieteresen	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	Act 028	Snubber Functional Testing	Personnel injury	Injury when installing heavy snubbers in test bench	Injury	P	0.5	-0.5	2.0	2.0	Very Low Risk	Use of the engine hoist to lift heavy snubbers.	Observation feedback, incident trending	Appropriate PPE Pre-job brief, OE, HP tools, Authorised persons. Be cautious when testing heavy snubbers, Situational awareness, use of engine hoist , OE. Two man rule	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles	OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his employees.	0.5	-0.5	1.0	1.0	Very Low Risk	J. Pieteresen	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	Act 029	Using lifts	Used for the conveyance of persons & equipment	Entering or Exiting lifts. Opening and closing inside or outside doors	First aid or possible medical injuries	P	2.5	0.0	3.0	5.5	Medium Risk	Be alert when entering a lift and comply with instructions as per the signposting.	N/A	SHE talks/OE, incident recall , inform EMS when deficiencies are identified.		OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his employees.	2.5	0.0	2.0	4.5	Low Risk	J. Pieteresen	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	Act 030	Entering and Exiting office areas	Personnel injury	Slips, trips and falls	First aid or possible medical injuries	P	3.0	0.5	2.0	5.5	Medium Risk	Be alert when opening doors and adhere to signposting	N/A	SHE talks/OE, incident recall. Be cautious when opening and closing doors		OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his employees.	3.0	0.0	1.0	4.0	Low Risk	J. Pieteresen	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	Act 031	Walking in office areas, outside areas and plant areas	Personnel injury	Slips, trips and falls	First aid or possible medical injuries	P	3.0	0.5	2.0	5.5	Medium Risk	adhere to signposting in all areas	N/A	SHE talks/OE, incident recall. Apply situational awareness		OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his employees.	3.0	0.0	1.0	4.0	Low Risk	J. Pieteresen	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	Act 032	Table Tennis	Personnel injury	Slips, trips and falls	First aid or possible medical injuries	P	2.0	0.5	2.0	4.5	Low Risk	Be alert of surrounings	Survey area before start of games	SHE talks/OE. Be cautious of walls and cubicle partitioning.			2.0	0.0	1.0	3.0	Low Risk	J. Pieteresen	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	Act 033	Walking in outside areas (e.g ski cabins) (Only in Outages)	Personnel injury	Slips, trips and falls	First aid or possible medical injuries	P	3.0	0.0	2.0	5.0	Medium Risk	Handrails installed. Sign posting in and around all cabins Installation of lighting around the area.	Contractors to do monthly SHE inspections during outages. Monthly checks of general conditions of walk ways	SHE talks/OE, incident recall. Apply situational awareness		OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his employees.	3.0	0.0	1.0	4.0	Low Risk	J. Pieteresen	V. Mars	L. Thomas	2024-04-29

Plant Engineering	I&T	Act 034	Holding onto Hand-rails	Walking to or from various areas within and outside ACP 2 using staircases with handrails	Contact with Corona Virus (COVID 19)	Illness (SARS or Pneumonia), Fatality	P	2.5	-1.0	0.0	1.5	Very Low Risk		Metro Cleaning to Monitor quantity / availability of disinfectant or sanitizers placed on identified stairs (MAB; ISI; Electrical Building; Ekhaya and OTF).	Management Instruction or directive to suspend use of handrails and staff to use route that do not necessitate the use of Handrails. Caution: Staff going up stair case should wear wear flat shoes and not high heels or stilletos.			OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his employees.	2.5	-1.0	0.0	1.5	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	Act 035	pressing in access Pin at ACP2 and access controlled plant areas	Walking through ACP2 to site and various access controlled zones	Contact with Corona Virus (COVID 19)	Illness (SARS or Pneumonia), Fatality	P	3.0	-1.0	0.0	2.0	Very Low Risk	Install sanitizers or disinfectacts at respective access controlled areas	Metro Cleaning to Monitor quantity / availability of disinfectant or sanitizers placed on identified stairs (MAB; ISI; Electrical Building; Ekhaya and OTF).	raise an awareness and brief staff on the expectation			OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his employees.	3.0	-0.5	0.0	2.5	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	Act 036	pressing buttons of goods and passenger lifts on plant	Going to and from 19m level Operating and various plant levels	Contact with Corona Virus (COVID 19)	Illness (SARS or Pneumonia), Fatality	P	3.0	-1.0	0.0	2.0	Very Low Risk	Install sanitizers or disinfectacts at respective lifts	Ops and RP to Monitor quantity / availability of disinfectant or sanitizers placed on identified lifts (ISI; Electrical Building; NAB and Fuel Buildings).	raise an awareness and brief staff on the expectation Caution: Inform ISI personnel not to use the lift until further notice.			OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his employees.	3.0	-1.0	0.0	2.0	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	Act 037	holding onto rungs of catladders on plant	accessing plant equipment	Contact with Corona Virus (COVID 19)	Illness (SARS or Pneumonia), Fatality	P	3.0	-1.0	0.0	2.0	Very Low Risk			Raise awareness on COVID 19. Wear gloves; practice good personal hygiene (hand washing with soap)			Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) Regulation 6; 10 & 11 of the Regulations for Hazardous Biological Agents and Annexure C.	3.0	-1.0	0.0	2.0	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	Act 038	using shared computers and mouse; telephones (dect phones) printers; and pens	performing administrative duties and communicating with other stakeholder or colleagues	Contact with Corona Virus (COVID 19)	Illness (SARS or Pneumonia), Fatality	P	3.0	1.0	5.0	9.0	High Risk			Raise awareness on COVID 19; practice good personal hygiene (hand washing with soap); disinfect the pc or phone before use or Ban use of shared computers and phones.			Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) Regulation 6; 10 & 11 of the Regulations for Hazardous Biological Agents and Annexure C.	3.0	-1.0	0.0	2.0	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	Act 039	Turning office / store rooms door handles	accessing respective office or store areas	Contact with Corona Virus (COVID 19)	Illness (SARS or Pneumonia), Fatality	P	3.0	-1.0	0.0	2.0	Very Low Risk			Raise awareness on COVID 19; practice good personal hygiene (hand washing with soap); disinfect the door handles			Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) Regulation 6; 10 & 11 of the Regulations for Hazardous Biological Agents and Annexure C.	3.0	-1.0	0.0	2.0	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	Act 040	exhaling onto breathalyzer test	conducting alcohol test at bulk stores and ACP 2	Inhaling Corona Virus (COVID 19)	Illness (SARS or Pneumonia), Fatality	P	2.5	1.0	5.0	8.5	High Risk			Management Instruction or directive to suspend 100% alcohol test. Security will conduct random breathalyzer tests in the interim.			Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) Regulation 6; 10 & 11 of the Regulations for Hazardous Biological Agents and Annexure C.	0.0	-1.0	5.0	4.0	Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	Act 041	Sitting in meetings, mass gathering (Work stops and Open Forums), and open plans in office building	Group meetings	Contact with and inhaling Corona Virus (COVID 19)	Illness (SARS or Pneumonia), Fatality	P	2.5	1.0	5.0	8.5	High Risk	Adequate ventilation	Monitor ventilation efficiency; Monitor cleanliness of ventilation diffuse / vents	Management Instruction or directive to suspend all mass gatherings and non-essential meetings; Management Instruction or directive that all essential meetings to be conducted in a spacious venue and key attendees sitting at least 1 meter apart and/or use IT tools to have remote meetings . Avoid shaking hands or greeting involving body contact; Apply personal hygiene (Hand washing with soap).			Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) Regulation 6; 10 & 11 of the Regulations for Hazardous Biological Agents and Annexure C.	3.0	-1.0	0.0	2.0	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	Act 042	Conducting medical examinations (Spirometry)	Pre-employment, Periodic and Exit Medical examinations	Inhaling Corona Virus (COVID 19)	Illness (SARS or Pneumonia), Fatality	P	3.0	-1.0	0.0	2.0	Very Low Risk	Adequate ventilation	Monitor ventilation efficiency; Monitor cleanliness of ventilation diffuse / vents	Management Instruction or directive to have international workforce quarantened for at least 14 days prior and cleared by own doctor before coming to site for FFD process; Suspend spirometry until further notice. Schedule medical appointments to avoid over crowding at onsite and offsite medical centres (MSB and FFD centre); Apply good personal hygiene practice (Hand washing with soap).			Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) Regulation 6; 10 & 11 of the Regulations for Hazardous Biological Agents and Annexure C.	1.0	-0.5	5.0	5.5	Medium Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	Act 043	Using shared kitchen items (fridges, tosters, presser, water tap and hydroboils).	Preparing refreshments	Contact with Corona Virus (COVID 19)	Illness (SARS or Pneumonia), Fatality	P	3.0	-1.0	0.0	2.0	Very Low Risk			Raise awareness on COVID 19; practice good personal hygiene (hand washing with soap); disinfect or sterilise the kitchen items used, as appropriate.			Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) Regulation 6; 10 & 11 of the Regulations for Hazardous Biological Agents and Annexure C.	1.0	-0.5	5.0	5.5	Medium Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	Act 044	Travelling to and from affected areas	Business or personal travel	Contact with Corona Virus (COVID 19)	Illness (SARS or Pneumonia), Fatality	P	1.5	1.0	5.0	7.5	High Risk			Management Directive or instruction to Ban business travel unless approved by E-Band Manager. Raise awareness on COVID 19; practice good personal hygiene (hand washing with soap);			Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) Regulation 6; 10 & 11 of the Regulations for Hazardous Biological Agents and Annexure C.	3.0	-1.0	0.0	2.0	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	Act 045	Using shared rest room facilities (toilet seats, handwash basins)	Body rest	Contact with Corona Virus (COVID 19)	Illness (SARS or Pneumonia), Fatality	P	3.0	-1.0	0.0	2.0	Very Low Risk			Raise awareness on COVID 19; practice good personal hygiene (hand washing with soap); disinfect rest rooms.			Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) Regulation 6; 10 & 11 of the Regulations for Hazardous Biological Agents and Annexure C.	3.0	-1.0	0.0	2.0	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29

Plant Engineering	I&T	Act 046	Travelling to KTC, Fire Station, Conservation Centre, Bulk Stores, Dynefontein and ACP2 drop off zone using Eskom shuttle services	Commuting using Eskom shuttle services	Contact with Corona Virus (COVID 19)	Illness (SARS or Pneumonia), Fatality	P	3.0	-1.0	0.0	2.0	Very Low Risk			Management directive or instruction to Ban the use of Eskom vehicle, unless maximum 2 persons per group is allowed with appropriate sanitary kit in the vehicle. Raise awareness on COVID 19; practice good personal hygiene (hand washing with soap);		Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) Regulation 6; 10 & 11 of the Regulations for Hazardous Biological Agents and Annexure C.	3.0	-1.0	0.0	2.0	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	Act 047	Using EPD and Self Access; Exit Argos and GEM 5; Small Aricle Monitor at NAB, Decon Workshop, ISI Building and Chemistry	Accessing Radiological Controlled Zones	Contact with Corona Virus (COVID 19)	Illness (SARS or Pneumonia), Fatality	P	3.0	-1.0	0.0	2.0	Very Low Risk	Install sanitizers or disinfectants at respective access controlled areas	RP to Monitor quantity / availability of disinfectant or sanitizers placed on identified stairs (NAB; ISI; and Chemistry).	raise an awareness and brief staff on the expectation		Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) Regulation 6; 10 & 11 of the Regulations for Hazardous Biological Agents and Annexure C.	3.0	-1.0	0.0	2.0	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	Act 049	Handling shared Equipment and Tools	Performing maintenance or testing work on plant and /or non plant areas	Contact with Corona Virus (COVID 19)	Illness (SARS or Pneumonia), Fatality	P	3.0	-1.0	0.0	2.0	Very Low Risk			Provide work areas (Workshops; chemistry and RP Services) with disinfectants; raise an awareness and brief staff on the expectation		Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) Regulation 6; 10 & 11 of the Regulations for Hazardous Biological Agents and Annexure C.	3.0	-0.5	0.0	2.5	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	Act 050	accessing control room for PTW; LAR and ops work related activities	Making contact with Control Room operators	Contact with and inhale Corona Virus (COVID 19)	Illness (SARS or Pneumonia), Fatality	P	3.0	-1.0	0.0	2.0	Very Low Risk			Issue an instruction to restrict unnecessary contact with plant operators in the control room Raise awareness on COVID 19; practice good personal hygiene (hand washing with soap);		Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) Regulation 6; 10 & 11 of the Regulations for Hazardous Biological Agents and Annexure C.	3.0	-1.0	0.0	2.0	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 051	walkdowns for CKV-O test on RRI valves.	climbing up the cat ladder	Jumping head, back injury	Injury	P	0.5	0	1	1.5	Very Low Risk	Sign Posting of potential hazard, Sufficient lightning	Observation feedback, incident trending	2m rule or situational awareness	Gloves, safety boots, hard hat, coverall, hearing protection, safety harness, safety glasses/goggles	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) Regulation 14 of the Construction Regulations (Scaffolding), General Safety Regulation 13a (Ladders), SANS 10085 (The Design, Erection, Use and Inspection of Access Scaffolding), Working at Height Procedure 32-418.	0.5	0	0	0.5	Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 004	Filter testing in the controlled zone	Transport / storage / Disposal of source	Ionising radiation	Illness	P	2.0	1.0	0.0	3.0	Low Risk	Source transported in lead container. Source kept under lock and key by RPM	Ensure RP is in attendance and RP requirements are met, Monitor dosimetry, limit over-exposure. RP wearing Dosimetry (EPD&TLD)	Activity to be performed by authorised staff (source handler), HP tools, required PPE, OE. Conform to all requirements of the RPC. Good ALARA Practices		OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his employees.	2.0	1.0	0.0	3.0	Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 004	Filter testing	Transport / storage / Disposal of source	Damage to holder and container	Equipment damage	E	2.0	-0.5	4.0	5.5	Medium Risk	Place lead holder in a sealed plastic container and red bag. Use trolley for transportation of source. Source kept under lock and key by RPM.	Ensure RP is in attendance and RP requirements are met, Wearing dosimetry equipment (EPD& TLD)	Activity to be performed by authorised staff (source handler / material handling), use the correct RPC, HP tools, PPE, OE.		OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his employees.	2.0	-0.5	1.0	2.5	Very Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 004	Filter testing	Milking mother source / injection	Ionising radiation, Contamination	Illness	P	2.0	1.0	0.0	3.0	Low Risk	Use Lead shield syringes.	Observation feedback, incident trending, ensure RP is in attendance and RP requirements are met, Monitor dosimetry(EPD&TLD), limit over-exposure.	Activity to be performed by authorised staff (source handler), use the correct RPC, HP tools, PPE, OE.		OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his employees.	2.0	1.0	0.0	3.0	Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 004	Filter testing	Injection into system in the control zone	Ionising radiation, Contamination & Airborne Contamination	Illness	P	2.0	1.0	3.0	6.0	Medium Risk	Tent around glove box, PVU unit in tent, baracading test area, Glove box maintained at negative pressure	Varous NAB radiation monitors, Pre-system survey and final checks prior to injection,	Procedure use PTW in force (verification with OPS). PPE, OE, Pre Job Brief, Self verification, peer checking, limited excess control,		OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his employees.	2.0	-0.5	3.0	4.5	Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 004	Filter testing	Injection into system outside of controlled zones	Ionising radiation, Contamination & Airborne Contamination	Illness	E	1.0	0.5	3.0	4.5	Low Risk	Tent around glove box, PVU unit in tent, baracading test area, Glove box maintained at negative pressure	Varous NAB radiation monitors, Pre-system survey and final checks prior to injection,	Procedure use PTW in force (verification with OPS). PPE, OE, Pre Job Brief, Self verification, peer checking, limited excess control,		OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his employees.	1.0	0.5	2.0	3.5	Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29
Plant Engineering	I&T	ACT 004	Filter testing	Removal of Source after test	Airborne Contamination	Illness	P	2.0	0.5	3.0	5.5	Medium Risk	Sampling of Glovebox Airspace prior to removing source	RP in attendance and use of RP instruments	Procedure use and adherence		OHSAct section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his employees.	0.5	-0.5	3.0	3.0	Low Risk	J. Pieterse	V. Mars	L. Thomas	2024-04-29