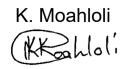
Øe	sko	om		GISTER SHEET	Reference No.: Revision: Associated Documents: Updated	KFV-SR-050 0 KGA-067 2021/11/09	Conventional Island Piping Inspection Risk Rigister																		
Department	Group	ld number	Activity / roduct / Service / Process / System	Aspect	Hazard / Potential Incident	Impact	Risk Category	nitial Frequency	ıttial Probability	Initial Severity	Conv	Initial Risk Classification	nal Island Piping Inspec	ction Risk R	ligister	Legal Requirements	Frequency	Probability	Severity	⁻ inal Risk Value	Final Risk Classification	Completed By:	Reviewed By:	Authorised By:	date:
											-		following: <u>HP TOOLS</u> , i.e. self checking, keeping, questioning attitude, effective knowledge; OTHER CONTROLS, i.e. mo	, pre-job / post job bri communication, coa	ning ANY activity, ALWAYS consider the ef, peer checking, procedure use, place- ching, handover and authorisation and nt & inspection; Operational control i.e.	Applicable Legal & other requirements & applicable sections (Eg: National Environmental Management Waste Act no. 59 of									
act	-			Use of equipment to								Very Low	OPERATIONAL/ ENGINEERING CONTROL (i.e. bund wall, equipment, procedures)	MONITORING & MEASUREMENT (i.e. inspection, monitoring) Observation feedback.	ADMINISTRATIVE/ PROGRAMME (i.e. training, protective measures) Activity to be performed by authorised persons,	2008, Section 19); National water act, Section X; National Environmental Management Act, Section Y) OHSA Regs (GNR 1031: Gen. Safety Regs)					Doubtful				
ctor Co		ACT 001	V-service Testing V-service Testing in N2	determine leaks in valves	Working in plant (during online)	Injury Illness, fatality	Р	0.5	-0.5	5.0	1.5 5.5	Very Low Risk Medium	poor lit areas.	Observation feedback,	2m Rule, Situational awareness, OE, pre job brief. Correct PPE 2-man rule, PPE, HP tools, OE,	Section 2 - Personal Safety Equipment and Facilities OHSA Regs (GNR 1179: Regulations for Hazardous Chemical substances) Annexure 5 OHSA Regs (GNR 1031: Gen, Safety Regs)	0.5	-		0.5	Risk	J. Pietersen	K. Moahloli K. Moahloli	T. Mthandi T. Mthandi	2021/11/09
ractor Cont		ACT 002	areas V-service Testing in	including vessels Activities in Heat stress	Heat stress, heat exhaustion, heat	Iliness, burns	р	1.0	0.0	3.0	4.0	Risk	PTW in force / LAR, SAC issued to RP, RP inc	Observation feedback, cident trending, Intake of	All staff to be certified as Heat Stress workers, workers briefed by RP, correct PPE to be worn	OHSA Regs (GNR 1031: Gen. Safety Regs) Section 2 - Personal Safety Equipment and Facilities OHSA (GNR 2281: Environmental Regulations) Section 2(4) - Thermal Requirements OHSA Regs (GNR 1031:	_		_	_	Low Risk	J. Pietersen	K. Moahloli	T. Mthandi	2021/11/09
ractor Cont	-	ACT 005	Heatstress areas	use of Cat ladder during V-	Stroke, hot surfaces, steam	Injury	P	2.0	0.0	3.0	5.0	Medium	72 Numerical Statement of the statement	ids prior to start of work, take rest periods	(long sleeve coveralls and gloves to protect against hot surfaces), 2-man rule, HP tools, OE Wearing of correct footwear when accessing ladders. HP tools, OE. Ladder training. Use	Gen. Safety Regs) Section 2 - Personal Safety Equipment and Facilities				_	Very Low	J. Pietersen	K. Moahloli	T. Mthandi	2021/11/09
ractor Contr	3	ACT 006	Use of handtools	service Testing	Injuries to personnel	Injury	P	2.5	1.0	3.0	6.5	Risk Medium	bags to secure tools	Handtools to be on a ecklist and maintained in	Activity to be carried out by trained staff, use handlool for intended purpose, HP tools, OE.	Section 13A (Ladders) OHSA Section 14 - Duties of employees OHSA General Safety Reguations 2 - Personal safety equivalities					Risk Low Risk	J. Pietersen	K. Moahloli	T. Mthandi	2021/11/09
tractor Cont	-	ACT 006	Use of handtools	Activities with handtools	Damage to plant equipment	Equipment damage		2.5	1.0	2.0	5.5	Risk Medium Risk	Correct transportation of handtools che	good working condition, Incident trend analysis Handtools to be on a ecklist and maintained in good working condition	Use of correct tools, use correct PPE. Activity to be carried out by trained staff, use handlools for intended purpose, HP tools, OE. Use of correct tools	OHSA Section 15 - Duties not to interfere with, damage or misuse of things. OHSA Section 14 - Duties of employees OHSA Section 15 - Duties not to interfere with, damage or misuse of things.					Low Risk	J. Pietersen	K. Moahloli	T. Mthandi	2021/11/09
ontractor Co	181	ACT 007	Work on Scaffolding and at heights	V-service Testing	Falling object or Person falling off scaffolding	Injury, fractures, fatalities	р	2.0	-0.5	5.0	6.5	Medium Risk		Scaffolding inspected regularly,	Scaffolding erected by skilled person, valid green tag must be on scaffolds, wear relevant PPE, wear safety harness for heights > 2 m, HP tools, OE, RP requirements wrt scaffolding to be	OHSA Regs (GNR 1010: Construction Regs) Section 8(4) and 14- Fall protection and Scaffolding OHSA Regs (GNR 1031: Gen. Safety Regs)	2.0	-1.0	3.0	4.0	Low Risk	J. Pietersen	K. Moahloli	T. Mthandi	2021/11/09
ontractor Co	18.1	ACT 008	Transport of equipment	Lifting, pushing and pulling of equipment	Injury to personnel	Injury	р	3.0	0.0	4.0	7.0	High Risl	Make use of trolleys to transfer equipment	Incident trend analysis	complied with. HP tools, PPE, OE, correct posture and ergonomics Materials handling training	Section 2 - Personal Safety Equipment and Facilities OHSA Section 14 - Duties of Employees OHSA Regs (GNR 1031: Gen. Safety Regs) Section 2 - Personal Safety Equipment and Facilities	3.0	0.0	3.0	6.0	Medium Risk	J. Pietersen	K. Moahloli	T. Mthandi	2021/11/09
ontractor C.	181	ACT 009	Exposure to noise environments	V-service Testing and walkdowns	Noise exposure greater than 85dB	Noise Induced Hearing Loss, temporary threshold shift	р	2.5	1.0	5.0	8.5	High Risl	Comply with MAN DIR 009, Man-job specification to reflect correct noise levels.	egular 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	Pacifies OHSA regs (GNR 307: Noise induced Hearing Loss) Section 3 - Exposure to noise and Section 5 - Duties of Employees OHSA Regs (GNR 1031: Gen. Safety Regs) Section 2 - Personal Safety Equipment and	2.5	-0.5	0.0	2.0	Very Low Risk	J. Pietersen	K. Moahloli	T. Mthandi	2021/11/09
ntractor C	18.1	Act 010	Office Activities and ergonomics at	Working on PC's, sitting position, use of mouse and keyboard, general activities	Poor ergonomics	Work related to back, upper limb disorders, repetitive strain	р	2.0	0.5	2.0	4.5	Low Risk	Ergonomically designed chair, correct	old long working sessions (allowing relaxation of	signposting. Correct workstation layout, ergonomic asessment of workstations, ensure correct posture when performing activities in the office.	OHSA Section 8 & 14 - Duties of Employers and Employees	2.0	-0.5	0.0	1.5	Very Low Risk	J. Pietersen	K. Moahloli	T. Mthandi	2021/11/09
tractor Co	18T	Act 011	workstations Office Fires and risks	in the office Possibility of a fire in the office area causing harm to	Flames and Smoke	syndrome, carpal tunnel syndrome Burns, injury, fatality, smoke inhalation	р	0.5	0.5	5.0	6.0	Medium Risk	Fire detection systems, fire extinguishers to Ex	xtinguishers and reels to	Materials handling, PPE usage where applicable Staff made aware of Evacuation routes and Muster points, Fire Marshalls appointed, Regula	OHSA (GNR 2281: Environmental Regulations for Workplaces)- Section 9 -Fire	0.0	-1.0	2.0	1.0	Very Low	J. Pietersen	K. Moahloli	T. Mthandi	2021/11/09
ractor Cont	-	Act 011	Office Fires and risks	Possibility of a fire in the office area causing damage		smoke inhalation		0.5	0.5	5.0	6.0	Medium	Fire detection systems, fire extinguishers to	basis	fire drills, good housekeeping, fire extinguisher training. Adhere to signposting Regular fire drills, good housekeeping, fire	OHSA (GNR 2281: Environmental Regulations for Workplaces) - Section 9 - Fire	0.0			_	Risk Very Low	J. Pietersen	K. Moahloli	T. Mthandi	2021/11/09
ictor Contr	-			to equipment	Un-accounted personnel / trapped in		^					Risk	and reels in working condition.	Observation feedback.	extinguisher training.	Pregulations for vronghades). Social 5 -File precautions and means of egress OHSA Section 8 & 14 - Duties of Employers					Risk Very Low				
ictor Contra	-	Act 012	Emergency Planning Acending and decending	during emergencies	dangerous areas	Injury / Fatalities	р	0.0	-0.5	4.0	3.5	Medium	Muster areas and Evacuation routes identified	incident trending	Regular Emergency Exercises Be cautious when ascending/ descending	OHSA regs (GNR 1010: Construction Regs)	0			1.0	Risk	J. Pietersen	K. Moahloli	T. Mthandi	2021/11/09
actor Contra	-	Act 013	stairs	Personnel injury	and posture	Injury, fatality	Р	2.5	1.0	3.0	6.5	Risk	Be alert when entering a lift and comply with	Incident trend analysis	staircase, Situational awareness, one hand free for using handrail, OE SHE talks/OE, incident recall , inform EMS when	Section 8(4)		+	_	_	Low Risk	J. Pietersen	K. Moahloli	T. Mthandi T. Mthandi	2021/11/09
dor Contra	181	Act 014	Using lifts	persons	closing inside or outside doors	First aid or possible	P	2.5	0.0	3.0	5.5	Risk	instructions as per the signposting.	NA	deficiencies are identified.	regulations accordance with the SABS 1545- 10 or SABS 1543.	2.5	0.0	2.0	4.5	Low Risk	J. Pietersen	K. Moahloli	T. Mthandi	2021/11/09
Contrac	181	Act 015	Entering and Exiting office areas	Personnel injury	Slips, trips and falls	First aid or possible medical injuries	р	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	OHSA Section 8 & 14 - Duties of Employers and Employees	3.0	0.0	1.0	4.0	Low Risk	J. Pietersen	K. Moahloli	T. Mthandi	2021/11/09
Contractor	IST .	Act 016	Walking in office areas, outside areas and plant areas	Personnel injury	Slips, trips and falls	First aid or possible medical injuries	р	3.0	0.5	2.0	5.5	Medium Risk	adhere to signposting in all areas	N/A	SHE taiks/OE, incident recall. Apply situational awareness	OHSA Section 8 & 14 - Duties of Employers and Employees	3.0	0.0	1.0	4.0	Low Risk	J. Pietersen	K. Moahloli	T. Mthandi	2021/11/09
													Ca	ontractors to do monthly											
Contractor	I&T	Act 017	Walking in outside areas (e.g ski cabins)	Personnel injury	Slips, trips and falls	First aid or possible medical injuries	р	3.0	0.5	3.0	6.5	Medium Risk	Handrails installed. S Sign posting in and around all cabins	SHE inspections during	SHE talks/OE, incident recall. Apply situational awareness	OHSA Section 8 & 14 - Duties of Employers and Employees	3.0	0.0	2.0	5.0	Medium Risk	J. Pietersen	K. Moahloli	T. Mthandi	2021/11/09
																			_	_					
Contractor	IST .	Act 018	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)	Iliness (SARS or Pneumonia), Fatality	р	2.5	0.5	5.0	8.0	High Risk	quar disi plac (MAI	ro Cleaning to Monitor intitity / availability of infectant or sanitizers ced on identified stairs 	Management instruction or directive to suspend use of handrails and staff to use route that do not neccesitate the use of Handrails. Caution: Staff going up stair case should wear wear flat shoes and not high heels or stilettos.	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	0.0	5.0	5.0	Medium Risk	J. Pietersen	K. Moahloli	T. Mthandi	2021/11/09
														ro Cleaning to Monitor				-	-	_					
Contractor	I&T	Act 019	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	р	3.0	1.0	5.0	9.0	High Risk	(MAI	ntitity / availability of infectant or sanitizers and on identified stairs (B; IS); Electrical Building; (aya and OTF).	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.	1.0	-0.5	5.0	5.5	Medium Risi	J. Pietersen	K. Moahloli	T. Mthandi	2021/11/09
tractor	åT	Act 020	Pressing buttons of goods and passenger lifts on plant	Going to and from 19m level Operating and various plant	Contact with Corona Virus (COVID 19)	Illness (SARS or Pneumonia), Fatality	р	3.0	0.5	5.0	8.5	N IN	quar Install sanitizers or disinfectacts at respective disir	and RP to Monitor Initity / availability of Infectant or sanitizers sed on identified lifts (ISE	raise an awareness and brief staff on the expectation Caution: Inform ISi personnel not to use the lift	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) Regulation 6; 10 & 11 of the Regulations for Hazardous Biological Agents	1.0	-0.5	5.0	5.5	umRisk	J. Pietersen	K. Moahloli	T. Mthandi	2021/11/09
r Con	-		and passenger litts on plant	levols		Proumonia), Patainy		-				÷	Elect	ctrical Building; NAB and i Buildings).	until further notice.	and Annexure C.		_	-	_	1				
Contracto	18.1	Act 021	Holding onto rungs of catladders on plant	Accessing plant equipment	Contact with Corona Virus (COVID 19)	Illness (SARS or Pneumonia), Fatality	р	2.5	0.6	5.0	8.0	High 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 Nazardous Biological Agents and Annexure C.	2.0	-1.0	5.0	6.0	Medium Ris	J. Pietersen	K. Moahloli	T. Mthandi	2021/11/09
îngin eer ing	I&T	Act 022	Using shared computers and mouse; telephones (dect	Performing administrative duties and communicating with	Contact with Corona Virus (COVID 19)	lliness (SARS or Pneumonia), Fatality	р	3.0	1.0	5.0	9.0	gh Ruk			Raise awareness on COVID 19: practice good personal hygiene (hand washing with soap); disinfect the pc or phone before use or Ban use	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) Regulation 6; 10 & 11 of the Regulations for Hazardous Biological Agents	1.0	-0.5	5.0	5.5	lium Risk	J. Pietersen	K. Moahloli	T. Mthandi	2021/11/09
ng Plant E			phones) printers, and pens	Unior stakenoliuer or convagues	•			-				ž			of shared computers and phones.	and Annexure C.	_	_	_		ă				
Plant Engineeri	18.1	Act 023	Turning office / store rooms door handles	Accessing respective office or store areas	Contact with Corona Virus (COVID 19)	Iliness (SARS or Pneumonia), Fatality	р	2.5	0.5	5.0	8.0	Ngh Rak			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.	1.0	-0.5	5.0	5.5	Medum Risk	J. Pietersen	K. Moahloli	T. Mthandi	2021/11/09
Plant F	I&T	Act 024	Exhaling onto breathelyzer test	Conducting alcohol test at bulk stores and ACP 2	Inhaling Corona Virus (COVID 19)	Iliness (SARS or Pneumonia), Fatality	р	2.5	1.0	5.0	8.5	12.6			Security will conduct random breathlyzer tests in	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	ow Risk	J. Pietersen	K. Moahloli	T. Mthandi	2021/11/09
5												-			the interim.	and Annexure C.		_			-				
igi neering	BT.	Act 025	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 Pnourcenia) Establic	р	2.5	1.0	5.0	8.5	n Ruk	Adequate ventilation Mon	nitor ventialtion efficiency;	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 meeting work of the state of the state of the state of the variet shaking hands or greeting involving hory.	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) Regulation 5; 10 & 11 of the Penulations for Maxardons Biological Amente	2.0	-0.5	5.0	6.5	um Risk	J. Pietersen	K. Moahloli	T. Mthandi	2021/11/09
Plant Er			plans in office building			Proundina), Patanty						P.	vent	tilation diffuse / vents	Avoid shaking hands or greeting involving body contact; Apply personal hygiene (Hand washing with soap).	and Annexure C.					Medi				
																		-	+						
jin eer ing	I&T	Act 026	Conducting medical examinations (Spirometry)	Pre-employment, Periodic and Exit Medical examinations	Inhaling Corona Virus (COVID 19)	Illness (SARS or	P	2.5	1.0	5.0	8.5	THE REAL	Moni Adequate ventilation Moni	nitor ventialtion efficiency;	Management instruction or directive to have international workforce quanrantened for at least 14 days prior and cleared by own doctor before coming to site for FFD process; Suspend spirometry until further notice.	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) Regulation 6; 10 & 11 of the Regulations for Hazardous Biological Agents	1.0	-0.5	5.0		m Risk	J. Pietersen	K. Moahloli	T. Mthandi	2021/11/09
Plant En	8		examinations (Spirometry)	Exit Medical examinations		Pneumonia), Fatality						dêi H		tilation diffuse / vents	Schedule medical appointments to avoid over crowding at onsite and offsile medical centres (MSB and FPD centre); Apply good personal hygiene practice (Hand washing with soap).	Regulations for Hazardous Biological Agents and Annexure C.			0.0		Mediu		N. Hounton		
ring															Raise awareness on COVID 19:			_	_	_					
Plant Engineer	18.1	Act 027	Using shared kitchen items (fridges, tosters, presser, water tap and hydroboils).	Preparing refreshments	Contact with Corona Virus (COVID 19)	Illness (SARS or Pneumonia), Fatality	р	3.0	0.5	5.0	8.5	High 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 Ris	J. Pietersen	K. Moahloli	T. Mthandi	2021/11/09
Plant Engineering	18.1	Act 028	Using shared rest room facilities (toilet seats, handwash basins)	Body rest	Contact with Corona Virus (COVID 19)	Illness (SARS or Pneumonia), Fatality	р	3.0	0.5	5.0	8.5	High 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.	2.5	-1.0	5.0	6.5	Medium Risk	J. Pietersen	K. Moahloli	T. Mthandi	2021/11/09
it aring	I&T	Act 029	Handling shared Equipment and Tools	Performing V-service Testing	Contact with Corona Virus (COVID 19)	Illness (SARS or Pneumonia), Fatality	р	3.0	0.5	5.0	8.5	di Kit			Provide work areas (Workshops; chemistry and RP Services) with disinfectancts; raise an awareness and brief staff on the	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) Regulation 6; 10 & 11 of the Regulations Relocided Agents	1.0	-0.5	5.0	5.5	dum Risk	J. Pietersen	K. Moahloli	T. Mthandi	2021/11/09
Ar Eng															expectation	and Annexure C.			_		3				
Contracto	181	Act 030	Accessing control room for PTW; LAR and ops work related activites	Making contact with Control Room operators	Contact with and inhale Corona Virus (COVID 19)	lliness (SARS or Pneumonia), Fatality	р	3.0	0.5	5.0	8.5	High Rea			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.	1.0	-0.5	5.0	5.5	Medium Ris	J. Pietersen	K. Moahloli	T. Mthandi	2021/11/09

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T. Mthandi 2021/11/10