•	TEC Cable Pneumatic Spooling Unit - Asset Tag #03/#04/05	Assessment No:	20180528 Rev: 1.0
Location/s Used:		Date:	28-May-2018
References used	· · · · · · · · · · · · · · · · · · ·	Assessment Team:	J. Hollingworth, G.Humphreys
for this	0 0	Company / Dept.:	Kinetic / Huracan / KWIS
assessment:	 Transport Operations (Road Use Management – Vehicle Standards & Safety) Regulation 2010 	Frequency of Activity:	Daily
(Inc. Legal obligations)	Generic Site Layout	Persons Affected:	Gauge Installation Crew

RELEVANT LEGISLATION / STANDARDS & PLANT DOCUME	NTATION	COMMENTS
Is plant required to be registered?	Y⊠N□	HUR-TSU-03
Is a user license required?	Y□N⊠	
Are operator's manuals accessible?	Y⊠N□	Available online and with equipment
Is this a restricted use item?	Y□N⊠	
Does this item require safe use documents/test?	Y□N⊠	
Does this item require a Plant Maintenance Book?	Y□N⊠	
Is this item subject to prescribed obligations in relation to weight?	Y□N⊠	(Weight of P&E is 1800kg)

Hazards Inspected		Risk Description	Risk Score	Control Measures	Person to Apply	Person to Monitor	Residual Risk	
ENTANGLEMENT Can anyone's hair, clothing, gloves, cleaning brushes, tools, rags or other materials become entangled with moving parts of the plant or materials? Y ⊠ N□		 Serious injury can occur if entanglement occurs in chain / sprocket 	Low (C3)	 Guards placed so that no access is available to chain / sprocket and air motor during operation. 	Maintena nce personnel to install guards.	Plant operator to ensure guards are installed prior to use	Low (E1)	
IMPACT AND CUTTING INJURIES - Can anyone be crushed / cut / struck etc. due to:								
Material falling off the plant?	Y 🗌 N🛛							



Previous Review Date

Next Review Date
02/21

Hazards Inspected		Risk Description	Risk Score	Control Measures	Person to Apply	Person to Monitor	Residual Risk
Uncontrolled / unexpected movement of plant/load?	Y⊠N□	- Injury to person	Low (D2)	 No personnel in area while cable is being run in hole. Exclusion area around spooler with authorised access only. 	Plant operator	Plant operator	Neg (E2)
Lack of capacity to slow, stop or immobilize plant?	Y⊠N□	 Injury to person while under rig control 					
The plant tipping or rolling over?	Y□N⊠						
Parts of the plant disintegrating or collapsing?	Y□N⊠						
		- Injury to person from loose items.	Med (B2)	 Ensure guards are installed prior to testing of unit. Competent maintenance personnel only. No loose items of clothing while maintaining Chain / Sprocket or air motor. 	Maintena nce personnel	Maintenan ce personnel / Operator to ensure guards are in place	Neg (E1)
Being thrown off / under the plant?	Y□N⊠						
Contact with sharp or flying objects? (e.g. work pieces being ejected)	Y□N⊠						
The mobility of the plant?	Y □ N□						
Inappropriate parts and accessories being used?	Y□N⊠						
Other	Y □ N□						



Hazards Inspected		Risk Description	Risk Score	Control Measures	Person to Apply	Person to Monitor	Residual Risk
SHEARING Can anyone's body parts be sheared between two parts of plant, or between a part of the plant and a work piece or structure?		- Serious injury to personnel operating equipment	Med (C3)	 Guards installed to cover drum access. Guard installed over chain and sprocket Competent personnel operating machinery 	Maintena nce Personnel	Operating	Neg (E2)
PRESSURISED CONTENT Can anyone come into contact with fluids or gases under high pressure, due to plant failure or misuse of the plant?	Y□N⊠						
ELECTRICITY - Can anyone be injured	or burnt due	to:					
Live electrical conductors? (e.g. exposed wires)	Y□N⊠						
Working in close proximity to electrical conductors? Y □ N⊠		-		-			
Access to electricity?	Y□N⊠						
Damaged or poorly maintained electrical leads, cables or switches?	Y□N⊠						
Water near electrical equipment?	Y□N⊠						
Lack of isolation procedures?	Y□N⊠						
Other	Y 🗌 N 🗌						
ERGONOMICS - Can anyone be injured	d due to:			<u> </u>			
Poorly designed workstation?	Y□N⊠						
Repetitive body movement?	Y□N⊠						
Constrained body posture or the need for excessive effort?	Y□N⊠						



Hazards Inspected		Risk Description	Risk Score	Control Measures	Person to Apply	Person to Monitor	Residual Risk
Design deficiency causing psychological stress?	Y□N⊠						
Inadequate or poorly placed lighting?	Y□N⊠						
Does the plant impact on the surrounding workplace and create potential hazards? (Consider safe access and egress from plant, workflow and design of the workplace)	Y⊠N□	- Injury to personnel from TEC cable breaking while under tension.	Low (C2)	 Exclusion zone between the unit and the rig during installation Unit self-spools when rig trips pipe in hole Limited tension due to pneumatic system 	Operator	Operator	Neg (E2)
Is the location of the plant inappropriate? (Consider potential affects due to environmental conditions and terrain)	Y□N⊠						
Other	Y 🗌 N						
RADIATION Can anyone using the plant, or in the vicinity of the Plant suffer injury or illness due to exposure to radiation in the form of any of the following: • infra-red radiation • ultra violet light • microwaves	Y □ N⊠						
NOISE Can anyone using the plant, or in the vicinity of the plant, suffer injury due to exposure to noise?	Y□N⊠	-		-			
VIBRATION Can anyone be injured or suffer ill-health from exposure to vibration?	Y □ N⊠						



Hazards Inspected		Risk Description	Risk Score	Control Measures	Person to Apply	Person to Monitor	Residual Risk
FRICTION Can anyone be burnt due to contact with moving parts, materials or surfaces of the plant?	Y□N⊠						
SUFFOCATION Can anyone be suffocated due to lack of oxygen, or atmospheric contamination?	Y□N⊠						
CONDITION Is a hazard likely due to the age and condition of the plant? (Consider how hard the machine has been worked, and whether it is used constantly or rarely).	Y □ N⊠	-		-			
Can anyone be injured as a result of the plant not serviced appropriately and / or maintained in line with manufacturer's recommendations?	Y□N⊠						
SLIPS / TRIPS / FALLS - Can anyone of	using the pla	nt, or in the vicinity of the pla	nt, slip, tri	p or fall due to:			
Uneven, slippery or steep work surfaces?	Y⊠N□	- Injury (slips / falls) adverse terrain on lease as equipment is operated from the ground	Med (A1)	 Spot spooler on level ground and perform hazard ID around spooling area for trip hazards 	Operator	Operator	Neg (D1)
Poor housekeeping, e.g. spillage in the vicinity?	Y□N⊠						
Obstacles being placed in the vicinity of the plant?	Y□N⊠	•					



Hazards Inspected		Risk Description	Risk Score	Control Measures	Person to Apply	Person to Monitor	Residual Risk
Inappropriate or poorly maintained floor or walking surfaces (i.e. lack of a slip-resistant surface, unprotected holes, penetrations or gaps?)	Y□N⊠						
Use of work platforms, stairs or ladders?	Y□N⊠						
Lack of guardrails or other suitable edge protection?	Y□N⊠						
Other	Y □ N□						
FIRE AND EXPLOSION Can anyone be injured by fire?	Y□N⊠						
Can anyone be injured by explosion of gases, vapours, liquids, dusts, or other substances?	Y□N⊠						
TEMPERATURE / MOISTURE Can anyone come into contact with objects at high or low temperatures?	Y□N⊠						
Can anyone suffer ill-health due to exposure to high or low temperatures?	Y□N⊠						
Can anyone be injured or suffer ill-health due to exposure to moisture?	Y□N⊠						
OTHER - Can anyone be injured or suff	er ill-health f	rom exposure to:					
Chemicals?	Y□N⊠						
Toxic gases or vapours?	Y□N⊠						
Fumes / Dusts?	Y□N⊠						
Other? (please specify)	Y 🗌 N 🗌						



Hazards Inspected		Risk Description	Risk Score Control Measures		Person to Apply	Person to Monitor	Residual Risk
HUMAN MACHINE INTERFACE (HMI)	– Can anyo	ne be injured from:					
Can the equipment perform a cycle of movement with one touch button?	Y□N⊠			Shut-down method of inadvertent operation:			
Is there any opportunity for the joy stick / lever to fail "on"?	Y⊠N□	- Damage to cable from back spooling	Low (B1)	Shut-down method after joy stick/lever failure: Remove air from unit	Operator	Operator	Neg (D1)
Operator of the equipment has full view of equipment movement?	Y□N⊠		If not, demonstrate exclusion zone integrity prior to movement: Area around spooling unit is exclusion zone, area between the rig and equipment is exclusion zone				
Are exclusion zones required?			Operator	Operator	Neg (E2)		
Does this equipment require isolating i.e. for maintenance, shut-down etc.	Y⊠N□	- Injury if entanglement occurs while guards are off during maintenance	uards Med - Airline removed from system to isolate		Maintena nce Personnel	Maintenan ce Personnel	Neg (E2)
If appropriate, is an ESD fitted? Y □ N⊠				Test ESD, is it clearly identified?			

NOTE: Using the Risk Matrix below, identify the Consequence & Probability of each risk occurring and enter the risk score in the Inherent column. Review the consequence, probability and risk score after appropriate controls have been agreed upon. Remember, the consequence <u>does not change</u> unless you <u>eliminate</u> the hazard (only the probability may change!

Consequence



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		HEALTH AND SAFETY	First Aid Injury (FAI)	Medical Treatment (MTI)	Lost time Injury (LTI)	Permanent [Disability / Fatality	Fatalities (multiple)	
KINETIC		FINANCIAL IMPACT	< \$20K	\$20K - \$200K	\$200K - \$2M	\$2N	Л - \$20M	\$20M+	
		REPUTATION	Minimal impact on business reputation, land holder only	Some impact on business reputation, local community exposure	Moderate impact on business reputation, local media exposure		npact on business onal media exposure	Critical impact on reputation, international media exposure	
		ENVIRO.	Incident. No breach of regulations / EA. Minimal and short term impact to any local environment.	Minor breach of regulations / EA resulting in notification to regulator. Localised, short term, recoverable minor impact on flora and fauna	Serious breach of regulations / EA resulting in reporting to regulator, investigation, environment notice or fines. Significant localised but short term environmental impact	in prosecution regulator Serious and lo impact and er	f legislation resulting on or litigation and by intervention. ong term ecological ovironmental harm. nagement activated.	Significant compliance breach resulting in prosecution / class action or loss of licence. Severe environmental harm with widespread or permanent Impact Crisis Management activated.	
			1. Insignificant	2. Minor	3. Moderate	4.	. Major	5. Catastrophic	
	A common event that is likely to occur in the industry many times per year	A. Highly Likely	Medium (A1)	Medium (A2)	High (A3)		xtreme (A4)	Extreme (A5)	
	An event likely to occur more than once a year in the industry	B. Likely	Low (B1)	Medium (B2)	Medium High (B3) (B4)		_	Extreme (B5)	
Likelihood	An event that may occur in the industry over 10 years	C. Possible	Low (C1)	Low (C2)	Medium (C3)		ledium (C4)	High (C5)	
_	An event not likely to occur in the industry over 10 years	D. Unlikely	Negligible (D1)	Low (D2)	Low (D3)		ledium (D4)	Medium (D5)	
	An event that has not previously been experienced in the industry but may occur in exceptional circumstances	E. Remote	Negligible (E1)	Negligible (E2)	Low (E3)	Low (E4)		Medium (E5)	
	Hierarchy of Controls		Level 1 – Eliminat	e the Hazard	Level 2 – Substitute, Isolate & E	ngineer	Level 3 - Admin & PPE Controls		
	Reporting Requirements		Report Only – All Neglig	ible Classifications	Investigate – All Low to Med	lium	TapRoot – High or above, or any Hi-Po		

