P&E Description &	Wireline/Slickline Crane Unit – Asset 2764	Assessment No:	20240521 Rev: 1.0
Location/s Used:		Date:	21-May-24
References used	3	Assessment Team:	J. Hollingworth / M. Auld
for this		Company / Dept.:	Huracan - Reservoir Monitoring
assessment:		Frequency of Activity:	Daily
(Inc. Legal obligations)	Generic Site Layout	Persons Affected:	Wireline/Slickline Crew / Rig Crew

RELEVANT LEGISLATION / STANDARDS & PLANT DOCUME	NTATION	COMMENTS
Is plant required to be registered?		Crane capacity is less than 10T, pressure vessel is less than 100 Mpa.L.
Is a user license required?	Y□N⊠	
Are operator's manuals accessible?	Y⊠N□	Operations Manual Available with Unit.
Is this a restricted use item?	Y□N⊠	
Does this item require safe use documents/test?	Y⊠N□	ESD checks are required prior to operation
Does this item require a Plant Maintenance Book?	Y⊠N□	Maintained under Huracan HIRD maintenance schedule
Is this item subject to prescribed obligations in relation to weight?	Y□N⊠	

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 or rotating drum.	Low (C4)	Guards placed so that no access is available to chain / sprocket and air motor during operation.	Wireline/Sli ckline Crew	Huracan Wellsite Supervisor	Low (E1)
IMPACT AND CUTTING INJURIES - C	an anyone b	e crushed / cut / struck etc. d	ue to:				
Material falling off the plant? Y ⋈ N is for rig		Primary function of crane is for rigging of wireline/slickline equipment	HIGH (B4)	Drops inspection required as per HSE_LP-DROPs Inspection RegVX.X. >2m Exclusion Zone for non-essential personnel during operation.	Wireline/Sli ckline Crew	Huracan Wellsite Supervisor	Medium (D4)



Hazards Inspected		Risk Description	Risk Score	Control Measures	Person to Apply	Person to Monitor	Residual Risk
Uncontrolled / unexpected movement of plant/load?	Y□N⊠						
Lack of capacity to slow, stop or immobilise plant?	Y□N⊠						
The plant tipping or rolling over?	Y⊠N□	Plant tipping due to crane operation	Ext (B5)	Crane maintenance. Load lock-out system on crane. Daily Checklist. Experienced Personnel.	Wireline Crew	Huracan Wellsite Supervisor	Med (E5)
Parts of the plant disintegrating or collapsing?	Y□N⊠						
Contact with moving parts during testing, inspection, operation, maintenance, cleaning or repair?	Y⊠N□	Injury to person from loose items	Med (B2)	Equipment is fitted with lockable isolation switch. Competent maintenance personnel only. No loose items of clothing while maintaining Chain / Sprocket or air motor.	Maintenanc e Personnel	Maintenanc e personnel / Operator to ensure guards are in place	Low (E2)
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□	Injury to person from plant movement	Med (C4)	Personnal are to not be on equipment when plant is being relocated from one well to another	Wireline/Sli ckline Crew	Huracan Wellsite Supervisor	Low (E4)
Inappropriate parts and accessories being used?	Y□N⊠						
Other	Y□N⊠						
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?	Y⊠N□	Serious injury to personnel operating equipment	Med (C4)	Guards installed to cover drum access. Guard installed over chain and sprocket Competent personnel operating machinery	Wireline/Sli ckline Crew	Huracan Wellsite Supervisor	Neg (E1)



Hazards Inspected		Risk Description	Risk Score	Control Measures	Person to Apply	Person to Monitor	Residual Risk
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□	Injury to personnel from Hydraulic Failure	Med (C3)	Routine maintenance, daily checklist, test wireline winch hydraulic lines prior to use.	Wireline/Sli ckline Crew	Huracan Wellsite Supervisor	Low (D3)
ELECTRICITY - Can anyone be injured	or burnt due	e to:					
Live electrical conductors? (e.g. exposed wires)	Y□N⊠						
Working in close proximity to electrical conductors?	Y□N⊠						
Access to electricity?	Y⊠N□	240V AC Power in Unit	High (B4)	Electrical equipment with exposed wires contained within distribution panel. Only qualified electricians are authorised to work on electrical systems. Warning signs on switchboard panels.	Electrican	Huracan Managemen t	Med (D4)
Damaged or poorly maintained electrical leads, cables or switches?	Y⊠N□	Electrocution	Med (B3)	Equipment tested and tagged within test period prescribed by AS3760. Equipment inspected by a qualifed electrician or trained test and tag inspector.	Electrician or Qualified Test & Tagger	Huracan Managemen t	Low (D3)
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□	Potential risk during rigless operations to have inadequate lighting	Med (C4)	Operations only during daylight hours unless adequate lighting is available.	Huracan Wellsite Supervisor	Huracan Wellsite Supervisor	Low (E3)
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 cable breaking while under tension.	Low (C2)	1 -Exclusion zone between the unit and the rig during installation2 -Calibrated tension device is available to monitor cable tension.	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□	Injury to personnel from rotating equipment	Low (C2)	Winch drum guards installed to prevent injury.	Maintenanc e Personnel	Huracan Wellsite Supervisor	Neg (E2)
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□	Personal Injury	Med (C4)	Regular Maintenace required on Truck, Wireline Unit and Crane	Maintenanc e Personnel	Huracan Managemen t	Med (D4)
SLIPS / TRIPS / FALLS - Can anyone	using the pla	int, or in the vicinity of the plan	nt, slip, tri	p or fall due to:		<u> </u>	
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 Unit on level ground and perform hazard ID around work area for trip hazards	Operator	Huracan Wellsite Supervisor	Neg (D1)
Poor housekeeping, e.g. spillage in the vicinity?	Y⊠N□	Trip and personal injury due to poor housekeeping.	Med (B3)	Good housekeeping during unit pre-start and ongoing operations	Operator	Huracan Wellsite Supervisor	Neg (D3)
Obstacles being placed in the vicinity of the plant?	Y⊠N□	Personnal Injury from wellsite obstacles such as process equipment	Med (A1)	Remove obstacles when possible and provide exclusion zones to reduce the probability of injury to personnel.	Operator	Huracan Wellsite Supervisor	Low (C1)



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□	Injury from slip or fall during ascent or descent	Med (C3)	Personnel training and three points of contact. Pinned hand rails and kick rails for walkways.	All personnel	All Personnel	Low (D3)
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□	Injury from contact with hot surfaces.	Med (B2)	High-temperature equipment is contained within the exclusion zone, and exhaust is covered with heat-resistant material to	All personnel	All Personnel	Low (D2)
objects at high or low temperatures:			` ′	prevent injury.			` '
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⊠						



Hazards Inspected		Risk Description	Risk Score	Control Measures	Person to Apply	Person to Monitor	Residual Risk
Other? (please specify)	Y□N⊠						
HUMAN MACHINE INTERFACE (HMI)	– Can anyo	ne be injured from:				•	
Can the equipment perform a cycle of movement with one touch button?	Y□N⊠						
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 joystick/lever failure: ESD operation.	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:			
Are exclusion zones required?	Y⊠N□	Injury to personnel from wireline while under tension.	Low (C2)	 How are exclusion zones implemented? Crew to set >2m physical exclusion zone between rig or wellhead and unit during operation. Can anyone be within exclusion zone without equipment isolated? Operator allowed within exclusion zone to operate equipment use remote panel while using. 	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	Med (C4)	How is equipment isolated? - Equipment has a lockable isolator to stop the unit operation.	Maintena nce Personnel	Maintenan ce Personnel	Neg (E1)
If appropriate, is an ESD fitted?	Y⊠N□	Injury to personnel and damage to equipment	Med (B3)	Test E-ESD, is fitteed and clearly identified?	Maintena nce Personnel	Equipment operator	Med (C3)



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 does not change unless you eliminate the hazard, only the probability may change!

Consequence

_====
HURACAN

Likelihood

2 5= 5 .	HEALTH AND SAFETY	First Aid Injury (FAI)	Medical Treatment (MTI)	Lost time Injury (LTI)	Permanent Disability / Fatality	Fatalities (multiple)
	FINANCIAL IMPACT	< \$20K	\$20K - \$200K	\$200K - \$2M	\$2M - \$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	Significant impact on business reputation, national media exposure	Critical impact on reputation, international media exposure
HURACAN	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	Major breach of legislation resulting in prosecution or litigation and regulatory intervention. Serious and long term ecological impact and environmental harm. Emergency Management 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)	Extreme (A4)	Extreme (A5)
An event likely to occur more than once a year in the industry	B. Likely	Low (B1)	Medium (B2)	Medium (B3)	High (B4)	Extreme (B5)
An event that may occur in the industry over 10 years	C. Possible	Low (C1)	Low (C2)	Medium (C3)	Medium (C4)	High (C5)
An event not likely to occur in the industry over 10 years	D. Unlikely	Negligible (D1)	Low (D2)	Low (D3)	Medium (D4)	Medium (D5)
An event that has not previously been experienced in the industry but may occur	E. Remote	Negligible (E1)	Negligible (E2)	Low (E3)	Low (E4)	Medium (E5)

Hierarchy of Controls Level 1 – Eliminate the Hazard		Level 2 – Substitute, Isolate & Engineer	Level 3 - Admin & PPE Controls
Reporting Requirements	Report Only – All Negligible Classifications	Investigate – All Low to Medium	TapRoot – High or above, or any Hi-Po



in exceptional circumstances