

QHSE MANAGEMENT SYSTEM RESOURCE

JOB SAFETY ANALYSIS (JSA) AND RISK ASSESSMENT (RA)

DOCUMENT NUMBER
COILING CABLE ABOVE HANGER AND GAUGE TESTING GN014 HSE-LP-JSA-
V1.0

Activity Description & Location:	Coiling TEC Cable Above Hanger and Gauge Testing Onshore, Australia	Assessment No:	GN014	Rev:	1.0
		Date:	11-Dec-2019		
References used: (Inc. Legal obligations)	<ul style="list-style-type: none"> Wellsite Permit to Work System / Client Wellsite Permit System SOP GN013 Install Permanent Downhole Gauges 	Assessment Team:	G. Humphreys, J. Hollingworth		
		Company / Dept.:	Huracan / Reservoir Monitoring		
		Frequency of Activity:	Regular		
		Persons Affected:	Huracan Crew, Rig Crew		

OPERATION / EVENT	HAZARD	RISK	Initial Risk			CONTROLS			Residual Risk		
Steps	Energy source to cause harm / damage	Consequence of hazard – harm / damage to occur	Pr	Co	RS	Detail	Person to implement	Person to monitor	Pr	Co	RS
Cutting Cable and Stripping Encapsulation	<ul style="list-style-type: none"> Unsuitable / Restricted worksite Manual handling 	<ul style="list-style-type: none"> Equipment damage – Huracan Injury – Personnel Injury from longer than normal cable length, rig floor restrictions 	Possible	Major	Med C4	<ul style="list-style-type: none"> Ensure all PPE is used as per SOP Remove all non-essential personnel from the rig floor Visual inspection / hazard hunt of worksite Measure cable length to ensure adequate length to uncoil cable and have it a minimum of 3m from the wellhead. (Outside of Zone 2) Ensure two people help to strip encapsulation from cable using encapsulation stripping tool While stripping ensure cable is not kinked and damaged 	Huracan Crew, Rig Crew	Huracan Supervisor	Remote	Major	Low E4
Pass Cable through Tubing Hanger	<ul style="list-style-type: none"> Moving equipment Manual Handling 	<ul style="list-style-type: none"> Injury – Struck by cable Equipment damage – Huracan cable 	Possible	Major	Med C3	<ul style="list-style-type: none"> Place Borethrough fittings on as normal Lift hanger to head height as to provide enough room to pass the cable through the hanger without kinking 	Huracan Crew, Rig Crew	Huracan Supervisor	Remote	Major	Low D3

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						<ul style="list-style-type: none">• Pass cable through Borethrough fittings and secure as normal					
Wrap Cable Around Landing Joint	<ul style="list-style-type: none">• Lifting operations• Moving equipment• Manual handling	<ul style="list-style-type: none">• Injury – Struck by cable• Damage to cable	Possible	Major	Med C4	<ul style="list-style-type: none">• Tape cable in a 2m loop as to make easier to handle• Ensure adequate straight length of cable will be available through the rodlock for ease of install of the Wellhead Outlet before starting to wrap• Tape cable to landing joint above straight section• Wrap remaining cable around landing joint and ensure wrap finishes below the annular as this will be used to pressure test• After wrapping, slacken cable so that BPV will fit through the cable• Cut tape above straight cable section and remove for ease of landing joint removal• Land hanger and pressure test as per SOP	Huracan Crew, Rig Crew	All personnel	Remote	Major	Low E4
Testing Gauge	<ul style="list-style-type: none">• Ignition source• Tripping Hazard	<ul style="list-style-type: none">• Injury to personnel from tripping• Damage to cable from long cable length	Possible	Major	MED C4	<ul style="list-style-type: none">• After removing the BOP as per SOP straighten coiled cable section• Ensure personnel working around the longer section of cable are aware to avoid tripping• Pass cable through the rodlock and land• Test gauge function outside of the hazardous area (3m minimum) and confirm with OCR	Huracan Crew, Rig Crew	Huracan Gauge Installation Supervisor	Unlikely	Major	Low E4



Previous Review Date
12/19

Next Review Date
12/21

Page Number
2 of 4

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						<ul style="list-style-type: none"> • Cut cable and install WHO bulkhead as per SOP • Pressure test rodlock • Place housing over WHO as per SOP 					
Approved By: J. Hollingworth			Signature: <i>J. Hollingworth</i>					Date: 11-Dec-19			

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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					
	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	
	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	
Likelihood	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 in exceptional circumstances	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	