

# QHSE MANAGEMENT SYSTEM RESOURCE JOB SAFETY ANALYSIS (JSA) AND RISK ASSESSMENT (RA)

DOCUMENT NUMBER  
HUR-LP-QHSE-FRM015-JSA & RA-V1.0

<b>Activity Description &amp; Location:</b>	Load, transport & unload trucks Onshore, Australia	<b>Assessment No:</b>	GN003	<b>Rev:</b>	1.1
		<b>Date:</b>	13-Jun-19		
<b>References used:</b> (Inc. Legal obligations)	<ul style="list-style-type: none"> <li>Load Restraint Guide 2004 Edition</li> <li>Well Services Operational Guidelines</li> <li>National Heavy Vehicle Regulation</li> <li>JSA GN002 Operate Forklift, Telehandler &amp; Loader</li> </ul>	<b>Assessment Team:</b>	K. Rowbotham, G. Humphreys, J. Hollingworth,		
		<b>Company / Dept.:</b>	Huracan		
		<b>Frequency of Activity:</b>	Regular		
		<b>Persons Affected:</b>	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
Loading of trucks	<ul style="list-style-type: none"> <li>Plant &amp; Equipment failure (crane, sling)</li> <li>Manual handling</li> <li>Mobile Plant</li> </ul>	<ul style="list-style-type: none"> <li>Personal injury (dropped object, impact with mobile plant, MSD injury)</li> <li>Equipment damage (dropped object)</li> <li>Potential fatality (exposure to electricity)</li> </ul>	Likely	Major	H i g h 4	<ul style="list-style-type: none"> <li>Use approved &amp; certified lifting equipment</li> <li>Competent plant operators</li> <li>Truck to be loaded to drivers' requirements</li> <li>Load to be restrained in accordance with Load Restraint Guide</li> <li>Use positive manual handling techniques &amp; employ "hands off" where possible</li> <li>PPE – Gloves to be worn</li> <li>Exclusion zone (LUEZ) whilst loading, keep personnel clear of overhead loads &amp; from loading circumference of truck</li> <li>Check for and keep clear of power lines</li> </ul>	Plant Operator	Operator	Possible	Major	M e d C 4



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Coupling and uncoupling of trailers	<ul style="list-style-type: none"> <li>Blind spots</li> <li>Heavy vehicle movement</li> <li>Trailer and dolly changing/swapping (as per task requirements)</li> </ul>	<ul style="list-style-type: none"> <li>Personal injury</li> <li>Equipment damage</li> <li>Legislative breach</li> <li>Loss of load</li> </ul>	Likely	Major	H i g B 4	<ul style="list-style-type: none"> <li>Always inspect the area prior to any heavy vehicle movement – ensure no personnel and/or equipment are in the line of fire</li> <li>Be aware of surroundings</li> <li>Plan out area required for manoeuvring</li> <li>Establish and communicate an exclusion zone where other people are in the vicinity</li> <li>A positive locking mechanism must be used for the towing of all heavy vehicles as per <i>Heavy Vehicle National Regulation</i></li> </ul>	Driver	Driver	Possible	Major	M e d C 4
Transport of equipment	<ul style="list-style-type: none"> <li>Unsecured load</li> <li>Driving vehicle</li> <li>Reduced visibility (driving at night)</li> <li>Rural, remote, isolated locations</li> </ul>	<ul style="list-style-type: none"> <li>Loss of or equipment damage (dropped object / load)</li> </ul> <p>Injury or potential fatality (vehicle accident)</p>	Likely	Major	H i g B 4	<ul style="list-style-type: none"> <li>Use competent transport company / driver</li> <li>Certified load binders and or chains.</li> <li>Comply with all transport regulations and permits.</li> <li>Check load security as load / journey requires (initial, periodically throughout trip)</li> <li>Ensure torch or headlamp is available for driver to use for night operations</li> <li>Drive to conditions</li> <li>GPS/IVMS, UHF radio, sat phones available</li> <li>Maps</li> <li>Journey Management</li> </ul>	Driver	Driver	Possible	Major	M e d C 4
Approved By: J. Hollingworth				Signature: <i>Jon Hollingworth</i>				Date: 13-Jun-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				
Likelihood	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
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