

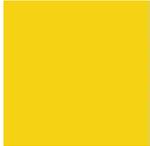


# LIFTING AND HOISTING

## FEED and Detailed Design Assessment

Project /WAF:		Reviewer:	
Team Contact:		Position:	

Phase	Action	Comments	Project Manager Feedback		
			Applicable? Y/N	Actions taken	Comments for improvement
Pre-DG3 (Select)	Identify L&H as a potential risk and note in the PES				
Project Kick Off Meeting	Is there L&H involved in the execution of the project?  What are the relevant L&H incidents that have occurred in QGC recently that are applicable?	Consider all types of lifts including simple lifts such as movement of gear. Provide list of Non-Routine complex lifts.  Consult the L&H SME			
Design Review/HAZID/Constructability Review	Are there alternatives to minimise or eliminate the L&H activities?	Consider a risk assessment comparing L&H versus alternatives to ensure that the most optimal ALARP option is selected.			
Site Visit	Carry out a visual assessment onsite of the lifting access, likely crane type, location of crane, any potential clashes with equipment or other project scopes, any known SIMOPs activities	Engineering Contractor, PM, Onsite Brownfield construction focal point			
Vendor Drawings and Data of load to be lifted	Are all the lifting drawings and lifting weights available?	Identify lifting radius to enable preliminary crane sizing.			



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			Applicable? Y/N	Actions taken	Comments for improvement
	Is the correct CoG shown in the drawings, including the final as-built drawings? Are all the lifting points designed and certified?	To be provided by vendor or Engineering consultant.			
Construction Scope of Work	Carry out early lifting assessment, can be done as a desktop exercise.	<p>The early lifting assessment is to be carried out by the construction contractor (preferably pre-award, can be done as desktop exercise)</p> <p>Consult the L&amp;H SME to consider any efficiencies or alternatives?</p> <p>The early lifting assessment should provide a high level plan of the number and size of cranes required for the loads and plan for movement of cranes. It should also include the underground services locations and any other above ground obstructions. If SIMOP activities are known these should also be captured.</p>			
Pre-award of construction contract	Assess if the L&H will be done under HSSE Mode 3, Mode 2 or a Mode 1. Ensure the requirements are understood as part of the contract award.	<p>Preferred use of QGC incumbent L&amp;H contractor where ever practical/possible.</p> <p>Provide list of Non-Routine complex lifts.</p>			
Geotechnical considerations	Has Geotechnical reports been performed for the asset?	Use QGC standard Geotechnical reports wherever possible.			