

## Marathon Galveston Bay Refinery Bull Rigging Assessment Form

Use with all applications of Chainfalls & Come-a-longs to Drift & Transfer Loads

<b>Bull Rigging Plan Initiated by Qualified Person:</b>	<b>Print Name:</b>	
<b>Specific location:</b>		<b>Date:</b>

<b>Load Description, Weight and Location</b>		
<ul style="list-style-type: none"> <li>• Description of the Load: _____</li> <li>• Weight of Load (pounds): _____</li> <li>• How was the load weight determined?      <input type="checkbox"/> Drawing   <input type="checkbox"/> Calculated   <input type="checkbox"/> Other _____</li> <li>• Has the Center of Gravity been evaluated?      <input type="checkbox"/> Yes   <input type="checkbox"/> No <i>(If No – Follow the steps below before proceeding)</i> <ul style="list-style-type: none"> <li>○ Make attachment(s) to the load based on the estimated Center of Gravity location</li> <li>○ Slowly remove hoist slack and lift the load just enough to observe the load reaction</li> <li>○ If load is stable continue with the lift; If load is unstable, move the attachment(s) points and make another trial until the load is stable</li> </ul> </li> </ul>		
<b>Rigging Equipment Expectation</b>	<b>YES</b>	<b>NO or N/A</b> Explain all NO answers
1. All rigging equipment including chain falls, come-a-longs, slings, chokers, shackles, beam clamps, chains etc. rated capacities have been verified adequate for the task? <i>(If No – DO NOT PROCEED)</i>		
2. Are the annual inspections current on all rigging equipment including chain falls, come-a-longs, slings, chokers, shackles, beam clamps, chains etc. <i>(If No – DO NOT PROCEED)</i>		
3. All sling and equipment angles have been evaluated and calculated? <i>(If No – DO NOT PROCEED)</i>		
4. Are beam clamps being used as anchorage points? <i>(If yes manufacturer angle limitations and capacity reductions must be followed.)</i>		
5. Are softeners installed to protect against sharp edges if applicable?		
<b>Rigging Attachment Points and Anchorage Points</b>		
6. The rigging attachment points have been determined and evaluated as adequate for the forces that will be applied during the operation? (Load chain hook shall not be “tied back” to the load chain) <i>(If No – DO NOT PROCEED)</i>		
7. The anchorage points are adequate to maintain control of the load at all times. <i>(If No – DO NOT PROCEED)</i>		
8. Are additional inspections (visually or NDE) needed to verify anchor point(s)? <i>(If Yes – Explain):</i> _____ Service in pipe: _____ Approving Qualified Person: _____		

<b>NOTE 1:</b> If the load will be anchored on live piping, <b>contact the MPC Coordinator/Supervisor to obtain approval before proceeding.</b>		
<b>NOTE 2:</b> Insulated piping shall never be used as an anchorage point.		
<b>NOTE 3:</b> The area below all rigging activities must be barricaded during the full cycle of the operation. Barricade shall remain in place if a suspended load is left unattended. Loads suspended by mechanical lifting devices shall not be left unattended overnight. Lashing should be properly installed if pipe/steel/equipment is not installed and bolted up.		
<b>Evaluate Work Zone</b>		
9. Could any part of the rigging or load contact existing piping/equipment/obstruction in the travel path? <b>(If yes, flag the piping/equipment/obstruction with high visibility material to demarcate the hazard to the crew.)</b>  List piping/equipment/obstruction: _____ _____		
10. For work at elevation (scaffolds and platforms), is the floor or temporary work surface rated to support the estimated loads that will be placed? <b>(If not, DO NOT rest load on floor or temporary work surface.)</b>		
11. When bull rigging in live units, does the team performing the bull rigging activity have a way to communicate with Operations? <b>(If No – DO NOT PROCEED)</b>		
<b>NOTE 4:</b> Only bull rig one item at a time.		
<b>NOTE 5:</b> Job Safety Analysis (JSA) should consider line of fire hazards for body position and/or hand placement.		

Explanations for "NO": \_\_\_\_\_

**Qualified Person shall direct all movements and activities. The Qualified Person accepts ownership and responsibility for execution of the bull rigging activities. Qualified Person must conduct a meeting prior to execution with personnel involved and must evaluate that all anchor and attachment points are sufficient to safely complete bull rigging activities outlined in this assessment.**

**Signatures of personnel associated with the bull rigging practice (Print, sign Name and date)**

Qualified Person:	_____	_____	_____
	<i>Print</i>	<i>Signature</i>	<i>Date</i>
Crew member:	_____	_____	_____
	<i>Print</i>	<i>Signature</i>	<i>Date</i>
Crew member.:	_____	_____	_____
	<i>Print</i>	<i>Signature</i>	<i>Date</i>
Crew member:	_____	_____	_____
	<i>Print</i>	<i>Signature</i>	<i>Date</i>
Foreman:	_____	_____	_____
	<i>Print</i>	<i>Signature</i>	<i>Date</i>

**A copy of this Bull Rigging Assessment SHALL be kept in the field with the active SWP & JSA**

If rigging configuration/anchorage point(s) changes: **STOP!** Complete a new bull rigging risk assessment form