



JHA - Job Hazard Assessment

Client:	Project:	JHA Assessment Date:	Task Commencement Date:
Type of work performed:	Rigging: Lift Plan – TSP Vessel 107-VPS-01 (4-Point Lift)	Supervisor (s):	JHA Author (s) Curtis Gowler, HSE Manager

MANDATORY PPE REQUIRED FOR WORK TASK:

4 head gas monitors (bumped and calibrated) to be worn on the upper portion of the body at all times, gloves appropriate for task and conditions, approved hearing protection when required (over 85dBA), CSA "Green Triangle" Safety Footwear, FR Coveralls with reflective striping, CSA Approved Hard Hat, CSA approved eye protection appropriate for task and conditions.

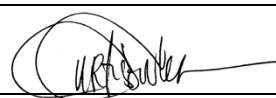
No one may perform any work on this site without first reviewing, understanding, and signing off on this JHA.

TASK	Pre-Control	JOB HAZARDS	CONTROLS	Post Control
Pre-Job Planning and Communication of Hazards	M	- Job scope not understood by all personnel - New employees to site/young workers - Improper planning and communication - No permits in place - Emergency procedure not known - Improper PPE/ tools/equipment for job - Insufficient lighting	- All new personnel must attend Tri Energy/Alta Gas orientation. - All workers must attend a pre-job meeting/toolbox before starting work, review muster points. - Short-service workers must be assigned a mentor and complete required Tri Energy SSW docs. - Applicable JHA must be reviewed and signed. - Supervisors working in the same area must meet before the daily tailgate to share work plans and hazards, then relay that information to their teams. - Update or complete a new FLHA when scope or conditions change. - FLHAs must be completed at the work-face to confirm all hazards and controls are understood. - Supervisors/Leaders must review and sign all FLHAs.	L
Obtain Appropriate Safe Work Permit	M	- Miscommunication, misunderstanding or lack of information. - Incomplete documentation. - Incomplete scope of work/operations.	- No work to be performed without a valid, applicable SWP. - Inspect the permit by reviewing elements of the work scope. - Review permit with workers prior to commencing work to establish that no conditions have changed or were missed. - Verify that the worker understands the entire scope of work prior to signing the permit by actively reviewing it with them.	L
Pre-Lift Preparation	H	- Incorrect rigging selection or damaged equipment - Unverified structural capacity of overhead beams - Incorrect or unverified vessel COG - Inadequate communication between riggers - Congested work area or poor access	- Conduct full rigging inspection; verify certifications are current - Engineer to confirm beam load capacity (1.5–2 tonne minimum per point) - Confirm vessel COG prior to lift; adjust rigging lengths as required - Pre-job tailgate meeting with all workers - Establish clear access and housekeeping around lift area - Confirm exclusion zone boundaries and signage	L
Rigging Installation	M	- Dropped objects during installation - Pinch points when installing shackles, slings, and come-alongs - Incorrect attachment to vessel lift points - Overhead work exposure	- Use tool lanyards and maintain 3-point contact - Wear gloves and maintain proper body positioning - Only use engineered lift points or approved attachments - Install beam clamps and come-alongs per manufacturer instructions - Supervisor to verify rigging configuration before tensioning	L

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Lifting Operation	H	• Uneven load distribution causing vessel shift • Come-along failure due to overload • Personnel exposure to suspended load • Vessel instability due to unknown COG • Sudden movement when slack is taken up	• Lift slowly and evenly across all 4 points • Maintain continuous radio or verbal communication • No personnel under suspended load at any time • Supervisor to monitor vessel stability and adjust as needed • Stop work immediately if any instability or abnormal movement occurs	L
Shim/Plate Replacement & Realignment	M	• Pinch points when inserting/removing shims • Vessel shifts during adjustment • Hot work exposure if welding is required • Confined access around vessel base	• Maintain vessel supported by all 4 points during adjustments • Use proper hand tools and maintain clear communication • Follow hot work permit requirements when welding • Use mechanical aids where possible to avoid hands near pinch points • Confirm vessel is stable before lowering	L
Lowering & Final Positioning	H	• Uneven lowering causing vessel tilt • Rigging failure during descent • Injury to hands/fingers near pinch points • Vessel settling unexpectedly	• Lower vessel slowly and evenly • Maintain exclusion zone until vessel is fully landed and secure • Supervisor to confirm vessel is seated correctly on new shims/base plates • Remove rigging only after vessel is fully supported and stable	L

Leadership Sign Off

Operations Manager	Name:	Signature:	Date:
Supervisor	Name:	Signature:	Date:
HSE Manager	Name: Curtis Gowler	Signature: 	Date:



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Please sign your name below to acknowledge that you understand and will follow the requirements outlined in this JHA.

NAME	SIGNATURE	DATE

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Risk Assessment Matrix

Potential Consequences					Increasing Likelihood				
					1	2	3	4	5
	People	Property	Environment	Reputation	Never heard of in the industry	Heard of in the industry	Occurred at Tri Energy or >1/yr in industry	Has happened >1/yr at Tri Energy	Happened >1/yr at similar location doing similar work
0	No injury or illness	No damage	No effect	No impact	L	L	L	L	L
1	First Aid	Damage <\$2,000	< TDG limit	Slight impact	L	L	L	L	L
2	Dr visit req.	Damage <\$10,000	< TDG limit	Concern stays at location	L	L	L	M	M
3	Modified work < 5 days	Damage <\$25,000	> TDG limit on ground	Affect ability to work at location, regulators	L	L	M	M	H
4	Missing work (LTA)	Damage <\$100,000	Any into standing water body	Public response required	L	M	M	H	H
5	Permanent disability or fatality	Damage >\$100,000	Any into flowing water system	On-going public response with lasting impacts	M	M	H	H	H