

JOB SAFETY ANALYSIS (JSA)

Job Task: Draining Pump & Lines Nightly	Date Last Revised: Aug 09, 2019	Frequency (F) Rate from 1 - 4	Consequences (C) Rate from 1 - 4	Probability (P) Rate from 1 - 4	Total Risk Rating (F x C x P)	Directives: Legislative, Regulatory, Policy, Codes of Practice, SOP, SWP, IRP, RP's etc.		Page: - 1 -
Created/Revised by: Colin Waterman	Approved by: Joe Reck					Enform IRP 13, AB/BC OH&S Regulations, SOP-0001, SOP-0003, SOP-0009		
Task Steps	Hazards					Risk (no controls) (A,B,C)	Hazard Controls 1. Engineer or Eliminate 2. Administrative 3. PPE	Risk Potential (after controls)

1. Isolate tank.	i. Equipment damage to the pump.	4	2	2	16	B	i. Close suction at tank, set manifold for suck back. ii. Position drip trays.	A
	ii. Leak or spill potential	2	2	1	4			
2. Drain suction lines.	i. Fluid leak from suction hoses.	2	1	3	6	A	i. Suck-back on lines & hoses. ii. Roll & drain suction hose from tank to pump. Cap tank suction. iii. Install air line & blow manifold clear with air.	A
	ii. Trip hazard ergonomic injury.	2	2	2	8			
	iii. Remaining fluid creating trap pressure.	3	1	2	6			
3. Suck back & drain fluids.	i. Leak or spill potential.	3	1	2	6	A	i. Complete drainage of suction hose into drip trays.	A
4. Shut off pump engine.	i. Equipment damage to valves or pump.	1	3	2	6	A	i. Shut engine off & lock-out equipment.	A
5. Remove pressure and suction caps.	i. Environmental damage and loss of revenue resulting from spillage.	1	2	2	4	A	i. Control spillage when opening valves, breaking apart unions & caps.	A
6. Remove pump seat assemblies, appropriate plugs and valves using proper tools.	i. Equipment wear & tear.	3	3	2	18	B	i. Inspect O-rings, valves and fittings for wear or damage. ii. Position drip trays for spills.	A
	ii. Leak or spill potential.	3	1	2	6			
7. Inspect pump, O-rings, valves, & fittings for wear or damage.	i. Pinch points.	2	3	2	12	B	i. Rotate pump by hand to access suction valves. Check tank manifold for siphoning. ii. Leave pump manifold valves open. Remove plug from suction pot and clean screen. Drain pre-charge pump.	A
	ii. Controlled substance left in pump.	2	1	3	6			

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OTHER DETAILS:									
SAFETY ITEMS REQUIRED FOR JOB								NAMES & SIGNATURES	
Gloves	X	Work Permit	X	ERP Phone #s	X	JSA/SOP/SWP	X		
Hard Hat	X	First Aid Kit	X	Safe Area	X	Lock/Tag-Out			
Safety Glasses	X	TDG/WHMIS	X	Fire Extinguisher		Ventilation			
FR Coveralls	X	MSDS		SCBA		Rubber gloves			
Steel Toe Boots	X	Fatigue Mngt.	X	High Visibility	X	Tire Chains			
Hearing Protection	X	Confined Space		Safety Signage	X	Chains/straps			
LEL Monitors	X	Fall Protection		Warning Alarm		Recovery strap			
Face Shield		Driver License	X	Wind Direction					
Apron		Permits – Current							

Frequency of Exposure (F)	Potential Consequence (C)	Incident Probability (P)
4 – One or more times per day	4 – Catastrophic (death, serious injury, permanent disability, extensive property damage)	4-Probable (possible once or more per year)
3 - At least once per week	3 - Critical (lost time injury/illness, temporary disability, considerable property damage)	3-Occasional (possible once every 1 to 5 years)
2 - At least once per month	2 - Marginal (medical aid injury, minor illness, minor property damage)	2-Remote (possible once every 5 to 20 years)
1 - Less than once a month	1- Negligible (first aid, limited property damage)	1 – Improbable (not likely to occur)