

Work Order:	WO-20241025-031	Client:	Great Lakes Chemical Processing
Job Description:	UT Thickness Survey - ATU-100	Location:	Hamilton Plant
Date(s):	November 4-7, 2024	Shift:	Day (07:00 - 16:00)
Supervisor:	Marcus Chen	Phone:	(905) 555-0203

PERSONNEL ASSIGNED

Name	Role	Cert. Level	Signature	Date
Marcus Chen	Lead Inspector	UT Level II		
Sarah Thompson	Inspector	UT Level II		

REQUIRED PERSONAL PROTECTIVE EQUIPMENT (PPE)

<input checked="" type="checkbox"/> Hard Hat	<input checked="" type="checkbox"/> Safety Glasses	<input checked="" type="checkbox"/> Steel-Toe Boots	<input checked="" type="checkbox"/> FR Clothing
<input checked="" type="checkbox"/> Work Gloves	<input checked="" type="checkbox"/> H2S Monitor*	<input checked="" type="checkbox"/> Hearing Protection**	<input checked="" type="checkbox"/> Fall Protection***
<input checked="" type="checkbox"/> Respirator	<input checked="" type="checkbox"/> Face Shield	<input checked="" type="checkbox"/> High-Vis Vest	<input checked="" type="checkbox"/> Chemical Suit

* H2S monitors provided by GLCP | ** Required near rotating equipment | *** Required above 6 ft elevation

PERMITS AND AUTHORIZATIONS REQUIRED

Permit Type	Required	Permit #	Valid From	Valid To
General Work Permit	YES	GWP-2024-1847	Nov 4, 2024	Nov 7, 2024
Hot Work Permit	NO	N/A		
Confined Space Entry	NO	N/A		
Elevated Work Permit	YES	EWP-2024-0923	Nov 4, 2024	Nov 7, 2024
Lockout/Tagout (LOTO)	NO	N/A		
Excavation Permit	NO	N/A		

HAZARD ANALYSIS

Job Step	Potential Hazards	Risk	Controls
1. Site entry and setup	Struck by vehicles Slips/trips on uneven surfaces	Med	Use designated walkways Wear high-vis vest Maintain awareness
2. Access CML locations at grade	Chemical exposure (amine splash) H2S exposure	Med	H2S monitor active at all times Know wind direction Avoid standing under piping

3. Access elevated CMLs via Fall protection height	Dropped objects	High	100% tie-off above 6 ft Tool tethers required Establish drop zone
4. Surface preparation (grinding)	Flying debris Noise exposure Sparks near flammables	Med	Face shield + safety glasses Hearing protection Verify no hot work restriction
5. UT thickness measurement	Repetitive motion Awkward postures Chemical contact (couplant)	Low	Rotate tasks Use proper body positioning Nitrile gloves for couplant
6. Working near operating equipment	Rotating equipment contact Hot surfaces Pressurized systems	Med	Maintain safe distance Identify hot surfaces No leaning on piping
7. Inclement weather	Wet/slippery surfaces Lightning	Med	Suspend outdoor work during lightning Extra caution on wet grating

EMERGENCY INFORMATION

Emergency Type	Contact	Phone/Radio
Site Emergency (Fire, Spill, Injury)	GLCP Control Room	(905) 555-0111 or Radio Ch 1
First Aid Station	Gate 2 Medical Building	(905) 555-0115
PNDE Emergency Contact	David Park (PM)	(905) 555-0205
Ambulance/Fire/Police	911	911
Poison Control	Ontario Poison Centre	1-800-268-9017
GLCP Safety Coordinator	Mike Sullivan	(905) 555-0123

MUSTER POINT: Main Gate Parking Lot (Assembly Area A)

EVACUATION ROUTE: Follow blue arrows to nearest exit gate

H2S AWARENESS

H2S Properties: Colorless gas, "rotten egg" odor (odor fatigue occurs quickly), heavier than air, extremely flammable, toxic at low concentrations.

Concentration (ppm)	Effects	Action
0.1 - 1	Odor threshold	Monitor continuously
10 (OSHA TWA)	Eye irritation begins	Low alarm - investigate
15 (OSHA STEL)	Moderate irritation	High alarm - evacuate upwind
100+	Loss of smell, rapid incapacitation	IMMEDIATELY evacuate, do not attempt rescue

PRE-JOB SAFETY MEETING SIGN-OFF

All personnel have reviewed this JSA and understand the hazards and controls. Daily tailgate meetings will be conducted each morning before work begins.

Name (Print)	Signature	Company	Date
Marcus Chen		PNDE	
Sarah Thompson		PNDE	

CLIENT REPRESENTATIVE ACKNOWLEDGMENT

GLCP Representative:

Date:

Print Name:

Title: