

PPE: Flame retardant coveralls, safety glasses, safety boots, air monitor on self

Original Author: L. Swaine

Revised By:

WATCH FOR THESE HAZARD SYMBOLS

Tools:

Issue Date: 23-02-24

Revision Date:



STEP 1:

Vessel arrives, check shipping document and confirm vessel at zero pressure.
 ⚠️ If tank is live with product- **HOLD**- check with Service Manager on next steps.

NOTE: Keep vessel in yard (outside) until procedure below confirms that it is safe to move in.



STEP 2:

Check that all valves and openings are closed.
 Verify the tank is at zero pressure by opening bleed valves, manual valves and all piping.



STEP 3:

If tank & outdoor temperature is **BELOW 0 °C**, check for remaining liquid draining from piping or vessel.

If liquid present- **HOLD**- check with Service Manager on next steps.

If no liquid present, close all valves.



STEP 4:

OUTSIDE: Verify wind direction for air purging and ensure no hazards down wind.
 Verify LEL levels are safe (below 10 percent) using air monitor (refer to **SF-13**).
 Connect air supply to vapour piping.

OPTION: run shop regulated air line to vapour connection (20-30 psi).



STEP 5:

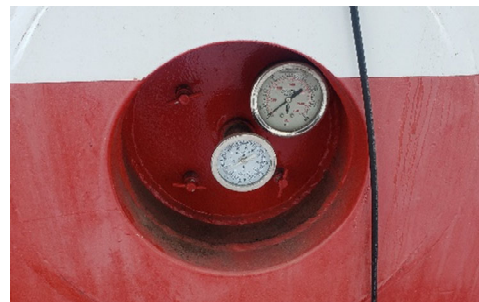
Open liquid valves on opposite end of tank from vapour connection.
 Ensure air is coming out of liquid ports.

Walk 50 foot radius around tank with air monitor on self to confirm LEL levels are safe (below 10 percent).



STEP 6:

⚠️ Check LEL level every half hour.
 Once LEL level is at zero, cycle all valves and open piping.



STEP 7:

Verify LEL is zero, then disconnect air supply.

Verify tank is at zero pressure, remove manway (refer to **WI-10**), reliefs & float gauge.
 If additional ventilation is required, place fan in manway and continue venting (blowing into the tank).



STEP 8:

If tank & outdoor temperature is **ABOVE 10 °C**:
 Proceed to **STEP 9**.

If tank & outdoor temperature is **BELOW 10 °C**:
 Proceed to **STEP 10**.

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STEP 9:
If tank & outdoor temperature is **ABOVE 10 °C:**
a) Bring vessel into shop and monitor LEL continuously.
b) Begin job.
c) Daily- continue to monitor air levels prior to work.

STEP 10:
If tank & outdoor temperature is **BELOW 10 °C:**
a) Turn off all shop heaters (**SK only**).
b) Bring vessel into shop and monitor LEL continuously at manway.
c) Immediately hook up venturi (air connection) and bleed line outside.

STEP 11:
[continued...]
d) Once running, verify all openings are pulling air in and venting outside
e) Continue to run until vessel reaches ambient temperature.
f) Verify LEL is at zero at exhaust hose and turn shop heaters back on.

STEP 12:
[continued...]
g) Continue to run air supply until tank reaches 15-20 °C.
h) Disconnect venturi and begin job.
i) Daily- continue to monitor air levels prior to work.

