

Confined Space Personnel Monitoring Guide

LOUISIANA REFINING DIVISION

Personal 4 gas Monitors are required for 100 % of the authorized entrants when any of the following conditions / work within a Confined Space exist:

	Sludge Removal / Chemical Cleaning ²	Arc Gouging ²	Coating Applications	Confined Space within a Confined Space (ex. cyclones in the regen)	Representative Monitoring of the Space cannot be Achieved
Where:	Storage Tanks, Process Vessels, etc.	Storage Tanks, Process Vessels, etc.	Storage Tanks, Process Vessels, etc.	Storage Tanks, Regenerator	TBD
Respirator Required:	SAR	SAR or SAR w/Yokes	SAR	TBD ¹	TBD ¹
Personal 4 gas Monitor Alarm Set Points for Task	O ₂ = 19.5% – 23.5% LEL < 10% H ₂ S < 75 PPM CO < 500 PPM	O ₂ = 19.5% – 23.5% LEL < 10% H ₂ S < 75 PPM CO < 500 PPM	O ₂ = 19.5% – 23.5% LEL < 10% H ₂ S < 10 PPM CO < 25 PPM	O ₂ = 19.5% – 23.5% LEL < 10% H ₂ S < 10 PPM CO < 25 PPM	O ₂ = 19.5% – 23.5% LEL < 10% H ₂ S < 10 PPM CO < 25 PPM

Notes:

1. Refer to RSW-A-002-GV and RSW-A-003-GV for additional information.
2. H₂S sensor will be set to alarm at 75 PPM and CO sensor will be set to alarm at 500 PPM
3. Hot Work A in sour service equipment will require SO₂ continuous monitoring.
4. H₂S Personnel Monitors are always required.
5. Confined Spaces that are clean, gas free and provided with the required ventilation will not require Personnel 4 gas monitoring unless the job scope requires it. This will be determined during the planning phase prior to the initial entry.