OpsAuditHub opsauditihub.com	DOC ID: **SAF-0301**	REVISION: **Rev 3.0 (2026)**
	STANDARD: **OSHA 29 CFR 1910.1200, ANSI/ASSE Z390.1, and ISO 45001**	AUDIT FREQUENCY: **Daily Pre-Shift & Continuous Monitoring**

Hydrogen Sulfide H2s Safety Checklist Sop Template

Operational Scope: Establishes standard operational protocols and verification checkpoints for hydrogen sulfide (H2S) hazard mitigation in upstream and midstream oil, gas, and energy facilities. Designed to ensure zero toxic exposure incidents and maintain full compliance with regulatory safety mandates.

MANDATORY PPE:	Self-Contained Breathing Apparatus (SCBA) / Supplied-Air Respirator, Personal H2S Electronic Gas Monitor with Calibrated Alarms, Flame-Resistant Clothing (FRC) meeting NFPA 2112, ANSI Z87.1 Approved Chemical Splash Goggles, ANSI Z89.1 Hard Hat with Ratchet Suspension, Chemical-Resistant Neoprene Safety Boots
PREREQUISITES:	Verify calibration status of all personal and fixed H2S gas detection monitors. | Confirm site emergency wind sock and streamer visibility are unobstructed. | Ensure designated upwind briefing areas and muster stations are clearly marked and accessible.

ATMOSPHERIC MONITORING & FIXED DETECTION SYSTEMS

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**Fixed H2S Point Sensors**	Sensors are free of physical damage, unobstructed, and response-tested within the last 30 days.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
2	**Audible & Visual Alarm Beacons**	Alarm horns and strobe lights activate instantly when test gas threshold (10 ppm low / 15 ppm high) is simulated.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
3	**Personal Gas Detectors**	Battery holds >90% charge, bump test passed today, and sensor calibration is valid.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A

ENGINEERING CONTROLS & VENTILATION EQUIPMENT

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
4	**Positive Pressure Blowers & Ducting**	Blowers operational in enclosed or semi-enclosed wellhead spaces to prevent vapor accumulation.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A
5	**Flare Stacks & Vapor Recovery Lines**	Ignition pilots are actively lit and pressure relief valves are sealed without fugitive emissions.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
6	**Process Piping & Flange Integrity**	No signs of sulfide stress cracking, corrosion weeping, or flange leakage via soap bubble or sniff testing.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A

EMERGENCY RESPONSE & LIFE SAFETY GEAR

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
7	**Emergency Escape Breathing Apparatus (EEBA)**	Cylinder pressure gauges indicate full capacity (min 2,216 psi) and straps are free of tears.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
8	**Emergency Eyewash & Safety Showers**	Flushed weekly, operational with tepid water flow, and unobstructed by stored materials.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A
9	**H2S Safety Signage & Warning Flags**	Danger H2S toxic gas signs visibly posted at all facility access points and perimeter boundaries.	**Standard**	[ ] PASS [ ] FAIL [ ] N/A

Certified H2S Safety Technician / Lead Operator Signature: _____	**Date / Time:** _____	**Badge / Cert #:** _____
Site Safety Supervisor / Operations Manager Sign-off: _____	**Review Date:** _____	**Audit Status:** [ ] Approved [ ] Rectify

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