OpsAuditHub opsauditihub.com	DOC ID: **SAF-0299**	REVISION: **Rev 3.0 (2026)**
	STANDARD: **OSHA 29 CFR 1910.134, ANSI/ASSE Z390.1, and API RP 49**	AUDIT FREQUENCY: **Daily Pre-Shift**

Hydrogen Sulfide H2s Safety Checklist Inspection Checklist

Operational Scope: Establishes mandatory inspection protocols for hydrogen sulfide (H2S) detection, monitoring, and personal protection systems in high-risk oil and gas environments. Mitigates the risk of toxic gas exposure, respiratory failure, and asphyxiation through rigorous pre-operational verification.

MANDATORY PPE:	H2S Personal Gas Monitor (Calibrated), Self-Contained Breathing Apparatus (SCBA) / Escape Pack, Flame-Resistant Clothing (FRC) NFPA 2112, Hard Hat with Ratchet Suspension (ANSI Z89.1), Safety Glasses with Side Shields (ANSI Z87.1)
PREREQUISITES:	Verify calibration status and battery level of all electronic H2S monitoring equipment. | Ensure up-to-date wind direction indicators (windsocks/streamers) are clearly visible at all rig approaches.

DETECTION & ALARM SYSTEMS

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**Fixed H2S Sensors**	Sensors are free of dust, paint, or physical obstruction and positioned correctly near potential release points.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
2	**Audible and Visual Alarms**	Strobe lights and horns activate instantly during manual bump test simulation.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
3	**Personal H2S Monitors**	Units successfully complete zero-calibration and show no sensor drift or low-battery warnings.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**

RESPIRATORY PROTECTION & LIFE SAFETY

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
4	**Workplace Escape Packs**	Cylinders are charged to minimum 90% capacity, seals are intact, and straps are free of fraying.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
5	**Cascade Air Systems**	Manifolds, regulators, and high-pressure hoses are securely connected with zero pressure leaks.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
6	**Emergency Eyewash & Shower**	Water flow is unobstructed, tepid, and operational with inspection tag initialed.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**

ENGINEERING CONTROLS & SIGNAGE

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
7	**Perimeter Warning Signage**	Danger H2S signs are posted clearly at all access points and property boundaries in compliance with ANSI Z535.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**
8	**Ventilation and Blowers**	Explosion-proof forced air blowers and ducting are fully operational and exhausting away from work stations.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
9	**Briefing Areas & Wind Socks**	Primary and secondary upwind briefing areas are clearly designated, unobstructed, and equipped with functional windsocks.	**Standard**	**[ ] PASS [ ] FAIL [ ] N/A**

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

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