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	STANDARD: **OSHA 29 CFR 1910.1200 / ANSI/ASSE Z390.1**	AUDIT FREQUENCY: **Daily Pre-Shift**

Hydrogen Sulfide H2s Safety Checklist Safety Audit Checklist

Operational Scope: This audit protocol governs the operational verification of hydrogen sulfide (H2S) monitoring, detection, and personal protection systems across upstream and midstream facilities. The objective is to ensure absolute zero-tolerance exposure compliance and immediate readiness for potential toxic gas releases in accordance with federal mandates.

MANDATORY PPE:	H2S Personal Gas Monitor (Calibrated), Self-Contained Breathing Apparatus (SCBA) / Supplied-Air Respirator, Flame-Resistant Clothing (FRC NFPA 2112), Hard Hat (ANSI Z89.1), Chemical Splash Goggles, Steel-Toe Safety Boots (ASTM F2413)
PREREQUISITES:	Verify calibration status and battery charge of all active electronic H2S monitoring units. | Confirm wind direction indicators (windsocks/streamers) are unobstructed and functional across the perimeter. | Ensure emergency briefing areas and wind-tack escape routes are completely clear of physical hazards.

DETECTION, ALARMS & ENGINEERING CONTROLS

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**Fixed H2S Gas Detectors**	Sensors are free of physical damage, obstruction, or coating, and have been bump-tested within the last 24 hours.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
2	**Audible and Visual Alarm Systems**	Strobe lights and sirens activate immediately upon reaching the 10 ppm warning threshold and 15 ppm alarm threshold.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
3	**Ventilation and Blowers**	Enclosed process areas and cellars show positive mechanical extraction functionality to prevent toxic pocket accumulation.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
4	**Emergency Flare Systems**	Pilot light status indicators confirm continuous ignition readiness for sour gas flare-off management.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A

PERSONAL PROTECTIVE EQUIPMENT & RESPIRATORY GEAR

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
5	**Personal H2S Electronic Monitors**	Unit is securely clipped to chest-level clothing, fully charged, and zeroed in fresh air before entering the hazard zone.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A
6	**Workplace Escape Respirators (EEDR)**	Mouthpiece/hood escape units are accessible within immediate reach of personnel, sealed, and pressure gauges are in the green zone.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
7	**SCBA Cascading Air Stations**	Air cylinders maintain minimum 90% capacity, regulators are free of leaks, and harness straps show no fraying or degradation.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A

EMERGENCY RESPONSE & COMMUNICATION PROTOCOLS

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
8	**Wind Direction Indicators**	Windsocks at primary and secondary locations are fully extended, clean, and visible from all operational vantage points.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A
9	**H2S Safety Signage**	Danger placards, restricted entry notices, and emergency muster station signs are clean, legible, and uncompromised.	**Standard**	[ ] PASS [ ] FAIL [ ] N/A
10	**Two-Way Radios and Communication Links**	Intrinsically safe radios are fully charged with designated H2S emergency channels verified and responsive.	**Critical (Immediate Out of Service)**	[ ] 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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