| OpsAuditHub<br>opsauditihub.com | DOC ID: **SAF-0303** | REVISION: **Rev 2.4 (2026)** |
|---|---|---|
| | STANDARD: **OSHA 29 CFR 1910.1200, ANSI/ASSE Z390.1, and API RP 49** | AUDIT FREQUENCY: **Daily Pre-Shift & Per-Entry** |

# Hydrogen Sulfide H2s Safety Checklist Compliance Checklist

**Operational Scope:** This compliance checklist governs operations in potential hydrogen sulfide (H2S) environments to ensure continuous hazard mitigation and protect personnel from acute toxic exposure. Strict adherence is mandatory prior to entering designated sour gas facilities or conducting hot work.

| | |
|---|---|
| **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), Steel-Toe Safety Boots (ASTM F2413) |
| **PREREQUISITES:** | Verify calibration status of all direct-reading H2S gas detection instruments. \| Confirm site wind direction indicators (windsocks/streamers) are operational and visible. \| Ensure emergency briefing has been conducted with all entering crew members. |

## ATMOSPHERIC MONITORING & DETECTION SYSTEMS

| # | COMPONENT / ITEM | VERIFICATION CRITERIA & ACCEPTANCE STANDARD | SEVERITY | STATUS |
|---|---|---|---|---|
| 1 | **Fixed H2S Sensors** | Sensors are unobstructed, power indicators are green, and functionality is verified against zero/span test logs within the last 30 days. | **Critical (Immediate Out of Service)** | **[ ] PASS<br>[ ] FAIL<br>[ ] N/A** |
| 2 | **Personal Multi-Gas Monitors** | Every worker possesses an issued monitor, bump test passed today, low alarm set at 10 ppm, and high alarm set at 15 ppm. | **Critical (Immediate Out of Service)** | **[ ] PASS<br>[ ] FAIL<br>[ ] N/A** |
| 3 | **Continuous Audible/Visual Alarms** | H2S warning strobes and horns are functional and audible above ambient facility noise levels from all operational sectors. | **Critical (Immediate Out of Service)** | **[ ] PASS<br>[ ] FAIL<br>[ ] N/A** |

## EMERGENCY RESPONSE & RESPIRATORY PROTECTION

| # | COMPONENT / ITEM | VERIFICATION CRITERIA & ACCEPTANCE STANDARD | SEVERITY | STATUS |
|---|---|---|---|---|
| 4 | **Workplace Escape Packs (EEBA)** | Supplied-air escape cylinders are fully pressurized (min 3,000 psi), seals intact, and securely positioned within immediate reach of personnel. | **Critical (Immediate Out of Service)** | **[ ] PASS<br>[ ] FAIL<br>[ ] N/A** |
| 5 | **Primary & Secondary Wind Socks** | Windsocks are untangled, illuminated for night operations, and clearly display current wind vectors for evacuation routing. | **Warning** | **[ ] PASS<br>[ ] FAIL<br>[ ] N/A** |
| 6 | **Emergency Muster Stations** | Muster point signage is unobstructed, upwind routes are clearly marked, and emergency communication links are tested. | **Warning** | **[ ] PASS<br>[ ] FAIL<br>[ ] N/A** |

## ENGINEERING CONTROLS & SAFE WORK PRACTICES

| # | COMPONENT / ITEM | VERIFICATION CRITERIA & ACCEPTANCE STANDARD | SEVERITY | STATUS |
|---|---|---|---|---|
| 7 | **Process Piping and Seal Integrity** | No visible signs of weeping, corrosion, packing leaks, or flange sweating on sour service lines. | **Critical (Immediate Out of Service)** | **[ ] PASS<br>[ ] FAIL<br>[ ] N/A** |
| 8 | **Confined Space H2S Purging** | Vessels/tanks have been purged, ventilated, and verified 0.0 ppm H2S prior to issuing confined space entry permit. | **Critical (Immediate Out of Service)** | **[ ] PASS<br>[ ] FAIL<br>[ ] N/A** |
| 9 | **Safety Data Sheets (SDS) & Signage** | Danger H2S toxic gas warning signs are prominently posted at all facility perimeter access points and updated SDS are accessible. | **Standard** | **[ ] PASS<br>[ ] FAIL<br>[ ] 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 |

**COMPLIANCE NOTICE:** This document must be archived for a minimum of 12 months in accordance with workplace safety recordkeeping guidelines.

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