OpsAuditHub opsaudithub.com	DOC ID: **SAF-0395**	REVISION: **Rev 2.4 (2026)**
	STANDARD: **OSHA 29 CFR 1910.146 (Permit-Required Confined Spaces) & OSHA 29 CFR 1910.272 (Grain Handling Facilities)**	AUDIT FREQUENCY: **Per Entry / Daily Pre-Operation**

Grain Silo Bin Confined Space Entry Permit Safety Audit Checklist

Operational Scope: This audit checklist governs the mandatory safety verification and atmospheric testing prior to entry into permit-required grain storage structures. Its primary objective is to mitigate engulfment, entrapment, engulfment-related asphyxiation, and hazardous atmosphere risks in strict compliance with federal regulations.

MANDATORY PPE:	Full-Body Harness with D-Ring (ANSI Z359.1), Retrievable Lifeline and Mechanical Winch System, Hard Hat with Chin Strap (ANSI Z89.1), Steel-Toe Safety Boots (ASTM F2413), Calibrated Multi-Gas Detector (O2, LEL, CO, H2S)
PREREQUISITES:	Verify all electrical and mechanical energy sources to augers, sweeps, and conveyors are locked out and tagged out (LOTO). | Ensure rescue personnel and continuous atmospheric monitoring equipment are stationed at the entry portal prior to authorization.

ATMOSPHERIC TESTING AND VENTILATION VERIFICATION

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**Oxygen Concentration Level**	Continuous meter reading confirms oxygen level is strictly between 19.5% and 23.5% without fluctuation.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
2	**Flammable Gases and Vapors (LEL)**	Lower Explosive Limit (LEL) registers at exactly 0% prior to entry authorization.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
3	**Toxic Gases (CO and H2S)**	Carbon Monoxide (<35 ppm) and Hydrogen Sulfide (<10 ppm) are verified below permissible exposure limits.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
4	**Forced-Air Ventilation**	Mechanical blowers are operating continuously to ensure adequate air exchange throughout the bin interior.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**

ENGULFMENT HAZARD CONTROL & ISOLATION

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
5	**Energy Isolation & LOTO**	All pneumatic, hydraulic, and electrical feeds to sweep augers and fill gates are physically locked out and tagged out.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
6	**Bridged Grain / Crust Assessment**	Visual confirmation from outside the bin verifies absence of vertical grain walls, bridging, or hanging crusts susceptible to collapse.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
7	**Zero Energy Discharge Spouts**	Bottom draw-off valves and slide gates are secured against accidental opening or material influx.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**

RESCUE EQUIPMENT & COMMUNICATION PROTOCOLS

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
8	**Retrieval System Rigging**	Tripod and hoist winch are properly positioned over the entry hatch and inspected for structural load integrity.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
9	**Attendant (Hole Watch) Presence**	A trained, designated attendant is stationed outside the entry point at all times, maintaining continuous communication.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
10	**Emergency Communications Gear**	Two-way radios or hard-wired communication lines are fully charged, tested, and operational between entrant and attendant.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**

Certified Confined Space Entry Supervisor Signature: _____	**Date / Time:** _____	**Badge / Cert #:** _____
Director of Farm Operations / Safety Manager Sign-off: _____	**Review Date:** _____	**Audit Status:** [ ] Approved [ ] Rectify

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