OpsAuditHub opsauditihub.com	DOC ID: **SAF-0396**	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 Sop Template

Operational Scope: This standard operating procedure and permit template governs safe entry into grain storage bins and silos to prevent asphyxiation, engulfment, and entrapment hazards. Full compliance with atmospheric testing, lockout/tagout, and attendant protocols is mandatory prior to breaching the portal.

MANDATORY PPE:	Full Body Harness with D-Ring (ANSI Z359.11), Retrieval Lifeline & Mechanical Winch System, Self-Contained Breathing Apparatus (SCBA) or Supplied-Air Respirator, Hard Hat with Chin Strap (ANSI Z89.1), Steel-Toe Safety Boots (ASTM F2413), Dust Mask / N95 Particulate Respirator (for staging)
PREREQUISITES:	Complete Lockout/Tagout (LOTO) of all augers, sweep augers, pneumatic fill systems, and discharge gates. | Establish continuous communication protocols between entrants, standby attendants, and rescue personnel. | Verify calibration and functional bump test of the multi-gas detection monitor.

SECTION 1: ATMOSPHERIC TESTING & ENVIRONMENTAL VERIFICATION

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**Oxygen Concentration Level**	Oxygen level must test consistently between 19.5% and 23.5% without fluctuation.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
2	**Flammable Gases & Vapors**	Lower Explosive Limit (LEL) must read strictly at 0% prior to permitting entry.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
3	**Toxic Contaminants (CO / H2S)**	Carbon monoxide below 25 ppm and hydrogen sulfide below 10 ppm; zero pockets of toxic fumigants.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**

SECTION 2: MECHANICAL ISOLATION & BRIDGED GRAIN HAZARD ASSESSMENT

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
4	**Energy Isolation & LOTO Verification**	All electrical and pneumatic power sources to sweep augers and conveyors are locked, tagged, and tried.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
5	**Bridged Grain & Crust Inspection**	Visual confirmation from outside or via hatch that no vertical grain walls, overhangs, or 'bridged' crusts exist above work zone.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
6	**Discharge Gate Security**	Gravity discharge gates mechanically blocked or chained to prevent accidental opening during occupancy.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**

SECTION 3: RESCUE PREPAREDNESS & PPE COMPLIANCE

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
7	**Standby Attendant Stationed**	Trained entrant attendant stationed continuously outside the bin entry portal with unobstructed view and communication line.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
8	**Retrieval System Rigging**	Tripod and mechanical winch securely positioned over top hatch with lifeline attached directly to entrant's dorsal D-ring.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
9	**Emergency Rescue Notification**	Local rural fire department or specialized bin rescue team contact numbers confirmed active and on-site.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**

Competent Person / Authorized Entrant Signature: _____	**Date / Time:** _____	**Badge / Cert #:** _____
Entry Supervisor / Operations Manager Sign-off: _____	**Review Date:** _____	**Audit Status:** [ ] Approved [ ] Rectify

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