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	STANDARD: **OSHA 29 CFR 1910.146 (Permit-Required Confined Spaces) & OSHA 29 CFR 1928.57**	AUDIT FREQUENCY: **Per-Entry / Daily Pre-Shift**

Grain Silo Bin Confined Space Entry Permit Compliance Checklist

Operational Scope: Mandatory operational protocol governing hazardous atmosphere monitoring, bridging/engulfment prevention, and lockout/tagout prior to grain silo bin entry. Ensures total risk mitigation and strict regulatory compliance for all agricultural personnel and contractors.

MANDATORY PPE:	Full Body Harness with D-Ring (ANSI Z359.1), Retrieval Lifeline & Mechanical Winch System, Multi-Gas Monitor (O2, LEL, CO, H2S), Hard Hat with Chin Strap (ANSI Z89.1), Steel-Toe Safety Boots (ASTM F2413), NIOSH-Approved N95 Respirator or Dust Mask
PREREQUISITES:	Verify zero energy state and execute Lockout/Tagout (LOTO) on all augers, sweeps, and pneumatic conveyance systems. | Ensure standby rescue personnel are stationed outside the bin with active communication equipment. | Validate that the confined space entry permit is fully completed and posted at the entry point.

ATMOSPHERIC TESTING & VENTILATION

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**Oxygen Concentration Level**	Continuous gas monitor reads between 19.5% and 23.5% oxygen without fluctuation.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
2	**Flammable Gases and Vapors (LEL)**	Lower Explosive Limit (LEL) registers strictly at 0% throughout all vertical strata of the silo.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
3	**Toxic Contaminants (CO & H2S)**	Carbon Monoxide (<35 ppm) and Hydrogen Sulfide (<10 ppm) are below OSHA permissible exposure limits.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
4	**Forced-Air Ventilation System**	Mechanical blowers are actively purging the space, maintaining continuous clean air exchange.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**

ENGULFMENT HAZARDS & MECHANICAL ISOLATION

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
5	**Energy Source Lockout/Tagout (LOTO)**	All electrical disconnects for sweep augers, fill conveyors, and bin valves are padlocked and tagged out.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
6	**Grain Bridging and Crust Inspection**	Absence of vertical grain walls or hanging crusts overhead; prohibition of walking down grain (OSHA zero-entry-law).	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
7	**Discharge Gate Integrity**	Bottom gravity discharge gates are mechanically blocked, pinned, and locked against accidental opening.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**

RESCUE EQUIPMENT & COMMUNICATION PROTOCOLS

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
8	**Tripod and Retrieval Hoist**	Mechanical winch and tripod are securely rigged directly over the top hatch with zero structural play.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
9	**Attendant Station & Line of Sight**	Trained entry attendant is stationed outside the bin maintaining constant visual or radio contact with entrants.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
10	**Emergency Response Preparedness**	Emergency action plan is reviewed; local emergency rescue services are notified of permit work if required.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**

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

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