OpsAuditHub opsauditihub.com	DOC ID: **SAF-0413**	REVISION: **Rev 2.4 (2026)**
	STANDARD: **OSHA 29 CFR 1910.303 (General Electrical Safety) & NFPA 70E (Standard for Electrical Safety in the Workplace)**	AUDIT FREQUENCY: **Monthly Audit**

Farm Irrigation Pump Electrical Inspection Compliance Checklist

Operational Scope: This checklist establishes the mandatory monthly inspection protocols for all agricultural irrigation pump electrical installations. Its primary objective is mitigating electrocution, arc flash, and equipment failure hazards in wet agricultural environments in strict compliance with federal safety mandates.

MANDATORY PPE:	Electrical Safety Gloves (Class 0/00 with leather protectors), Arc Flash Face Shield (NFPA 70E compliant), Dielectric Steel-Toe Boots (ASTM F2413), Safety Glasses with Side Shields (ANSI Z87.1), Flame-Resistant (FR) Long-Sleeve Shirt and Pants
PREREQUISITES:	Verify adherence to Lockout/Tagout (LOTO) protocols prior to internal enclosure inspection. | Confirm weather conditions are dry and safe for electrical testing to prevent slip and shock hazards. | Ensure calibrated digital multimeter and non-contact voltage tester are on hand.

CONTROL PANEL & ENCLOSURE INTEGRITY

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**Panel Enclosure & Weatherproofing**	Enclosure is NEMA 3R/4 rated, securely mounted, and door gaskets are intact preventing moisture and pest entry.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**
2	**Padlock & Hazard Signage**	Enclosure is locked against unauthorized access and displays legible 'Danger: High Voltage' warning decals.	**Standard**	**[ ] PASS [ ] FAIL [ ] N/A**
3	**Internal Wiring & Terminals**	All power and control wiring is neatly bundled, free of fraying, and terminal lugs show no signs of thermal discoloration or looseness.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**

GROUNDING, BONDING, AND PROTECTIVE DEVICES

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
4	**Equipment Grounding Conductor**	Ground wire is securely bonded to the control panel chassis, motor frame, and driven ground rod without visible corrosion.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
5	**Ground Fault Circuit Interrupter (GFCI)**	GFCI and surge protection devices function correctly when test button is depressed under live test conditions.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
6	**Circuit Breakers & Overload Relays**	Thermal overload relays match motor FLA ratings and show no evidence of tripping fatigue, carbon buildup, or arc tracks.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**

FIELD WIRING, MOTOR, AND DISCONNECTS

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
7	**Main Disconnect Switch**	External disconnect handle operates smoothly, cleanly breaks contact, and is capable of accepting multiple safety padlocks.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
8	**Submersible / Surface Pump Motor Cable**	Flexible feeder cables are supported appropriately, free from pinch points, and protected from livestock and machinery damage.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**
9	**Emergency E-Stop / Shut-Off**	Remote or panel-mounted emergency stop button halts pump operation immediately upon actuation.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**

Certified Electrical Inspector / Lead Farm Technician Signature: _____	**Date / Time:** _____	**Badge / Cert #:** _____
Site Safety Supervisor / Operations Manager Sign-off: _____	**Review Date:** _____	**Audit Status:** [ ] Approved [ ] Rectify

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