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	STANDARD: **OSHA 29 CFR 1910.178 & NFPA 70E**	AUDIT FREQUENCY: **Daily Pre-Shift**

Fleet Battery Maintenance Inspection Daily Log Sheet

Operational Scope: This daily log sheet mandates rigorous inspection of automotive and industrial fleet battery systems to mitigate electrical shock, acid spillage, and thermal runaway hazards. Compliance with this protocol ensures adherence to OSHA standard operating procedures and prevents catastrophic equipment failure.

MANDATORY PPE:	Acid-Resistant Face Shield (ANSI Z87.1), Chemical-Resistant Neoprene Apron, Heavy-Duty Nitrile or Rubber Gloves, Safety Glasses with Side Shields, Steel-Toe Safety Boots (ASTM F2413)
PREREQUISITES:	Verify vehicle ignition is completely off and keys removed from the dashboard. | Ensure battery charging station or inspection area is properly ventilated with functioning eyewash station. | Clear all metallic tools, jewelry, and conductive personal items away from the immediate work zone.

VISUAL & PHYSICAL INTEGRITY INSPECTION

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**Battery Casing & Housing**	Inspect for cracks, bulges, warping, or physical structural damage indicating internal shorting or thermal stress.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
2	**Terminal Posts & Connectors**	Check for heavy sulfation, green/white corrosion buildup, pitting, or loose terminal clamps affecting electrical flow.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A
3	**Hold-Down Brackets & Trays**	Verify that battery is securely mounted in the tray with bracket bolts torqued to specification to prevent shifting during transit.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A
4	**Vent Caps & Flame Arrestors**	Ensure all cell vent caps are tightly secured and unobstructed to allow safe hydrogen gas venting during operation.	**Standard**	[ ] PASS [ ] FAIL [ ] N/A

ELECTRICAL TESTING & FLUID LEVEL VERIFICATION

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
5	**Electrolyte Fluid Levels**	Check fluid level in accessible flooded cells; electrolyte must cover lead plates entirely. Top off with distilled water only if required.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A
6	**Open Circuit Voltage (OCV)**	Measure resting voltage using a digital multimeter; standard 12V automotive battery must read minimum 12.6V fully charged.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
7	**Cables & Insulation Integrity**	Inspect positive and negative battery cables for fraying, exposed copper strands, melting, or cracked rubber insulation.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
8	**Load Test / State of Health (SOH)**	Perform conductance or carbon pile load test to verify battery cranking capacity under simulated operating load.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A

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

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