OpsAuditHub opsauditihub.com	DOC ID: **SAF-0317**	REVISION: **Rev 2.4 (2026)**
	STANDARD: **EPA 40 CFR Part 280 & NFPA 30**	AUDIT FREQUENCY: **Daily Pre-Shift**

Petroleum Storage Tank Leak Inspection Daily Log Sheet

Operational Scope: This daily log sheet mandates the systematic pre-shift inspection of aboveground and underground petroleum storage tanks to detect early signs of leakage, corrosion, or structural compromise. Compliance mitigates catastrophic environmental contamination risks and satisfies federal spill prevention safety mandates.

MANDATORY PPE:	Hard Hat (ANSI Z89.1), Flame-Resistant (FR) Coveralls (NFPA 2112), Steel-Toe Composite Boots (ASTM F2413), Chemical-Resistant Nitrile Gloves, Safety Glasses with Side Shields (ANSI Z87.1), Portable Gas Detector (LEO/H2S/O2)
PREREQUISITES:	Verify portable gas monitor is calibrated and zeroed in fresh air before entering the tank farm containment area. | Ensure spill kit inventory is fully stocked and accessible adjacent to the secondary containment access point. | Review previous shift log entries for any unresolved warnings or deferred maintenance items.

PRIMARY CONTAINMENT & EXTERIOR SHELL INSPECTION

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**Tank Shell & Seams**	Inspect exterior walls for visible weeping, sweating, localized corrosion, blistering paint, or product stains.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
2	**Roof Seals & Venting**	Check pressure-vacuum (PV) vent caps for mechanical binding, icing, or blockage. Verify primary and secondary roof seals are intact.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A
3	**Foundation & Base Perimeter**	Examine the tank-to-foundation interface for oil pooling, asphalt degradation, concrete cracking, or soil erosion.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A

PIPING, VALVES & ANCILLARY EQUIPMENT

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
4	**Valves & Flange Connections**	Inspect all inlet, outlet, drain, and recirculation valves for active product drips, packing gland leaks, or missing bolts.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
5	**Emergency Shut-off Valves (ESDs)**	Ensure manual and thermal pneumatic/hydraulic ESD actuators are unobstructed, clearly labeled, and functionally uncompromised.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
6	**Flexible Connectors & Gaskets**	Check flexible hoses and expansion joints for bulging, cracking, kinking, or weeping at coupling interfaces.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A

SECONDARY CONTAINMENT & LEAK DETECTION SYSTEMS

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
7	**Bunding & Containment Basin**	Inspect concrete or earthen berms for structural cracks. Verify containment area is free of standing rainwater, debris, or chemical spills.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A
8	**Containment Drain Valve**	Confirm storm-water drain valve is securely closed, padlocked, and tagged when not actively discharging inspected clean water.	**Standard**	[ ] PASS [ ] FAIL [ ] N/A
9	**Leak Detection & Sump Sensors**	Verify interstitial monitoring gauges, electronic alarm panels, and sump liquid-level sensors are powered on with no fault indicators.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A

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

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