OpsAuditHub opsauditihub.com	DOC ID: **SAF-0288**	REVISION: **Rev 3.1 (2026)**
	STANDARD: **49 CFR Part 192 / ASME B31.8 / API 1110**	AUDIT FREQUENCY: **Per Test Event / Commissioning Phase**

Pipeline Hydrostatic Pressure Test Log Compliance Checklist

Operational Scope: This checklist establishes mandatory verification protocols for pipeline hydrostatic pressure testing to prevent catastrophic structural rupture and loss of containment. It ensures full compliance with federal pipeline safety standards and operational integrity verification prior to hydrocarbon introduction.

MANDATORY PPE:	Hard Hat (ANSI Z89.1), Steel-Toe Safety Boots (ASTM F2413), Safety Glasses with Side Shields (ANSI Z87.1), Flame-Resistant Clothing (FRC - NFPA 2112), High-Visibility Vest (ANSI/ISEA 107)
PREREQUISITES:	Test manifold, deadweight tester, and pressure recorders calibrated within the last 12 months with traceable certificates. | Exclusion zone established with warning signage and continuous perimeter monitoring restricting non-essential personnel. | Water source approved, environmental discharge permits secured, and fill/drain connections verified.

PRE-TEST MECHANICAL INTEGRITY & EQUIPMENT SETUP

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**Pressure Recording Instrumentation**	Primary and secondary pressure recorders (deadweight and chart/digital) are operational, calibrated, and synchronized with official site time.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
2	**Test Manifold & Isolation Valves**	All manifold valves, pressure relief valves, and blind flanges are rated for at least 1.5x maximum anticipated test pressure and show no signs of leaks.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
3	**Pipeline Section Isolation**	Test section is completely isolated from operating pipelines via double block and bleed or physical blanking plates.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
4	**Air Evacuation & Fill Verification**	Pipeline is thoroughly filled with test medium and air is completely purged from high points to prevent dangerous pneumatic compression pockets.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A

PRESSURIZATION & TEST EXECUTION PHASE

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
5	**Initial Stabilization Pressure**	Pressure raised in uniform increments (e.g., 25%, 50%, 80%) with mandatory hold periods for thermal stabilization and visual inspection.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A
6	**Maximum Test Pressure Target**	Pressure successfully attained required test pressure (e.g., 1.25x to 1.5x MAOP) without exceeding pipe yield strength limits.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
7	**Temperature Monitoring**	Ambient and ground/water temperature sensors active; temperature fluctuations accounted for in pressure loss analysis.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A

HOLD PERIOD, DOCUMENTATION & DECOMMISSIONING

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
8	**Specified Hold Duration Log**	Continuous pressure and temperature log maintained for the regulatory-mandated duration (typically 4 or 8 hours) with zero unexplained pressure drops.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
9	**Exclusion Zone Enforcement**	Perimeter security maintained without breach throughout the duration of the high-stress pressure hold phase.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
10	**Controlled Depressurization & Environmental Discharge**	Pressure safely bled off at controlled rates, and test water discharged in strict compliance with environmental protection permits.	**Standard**	[ ] PASS [ ] FAIL [ ] N/A

Certified Pipeline Quality Inspector Signature: _____	**Date / Time:** _____	**Badge / Cert #:** _____
OpsAuditHub Lead Safety Engineer Sign-off: _____	**Review Date:** _____	**Audit Status:** [ ] Approved [ ] Rectify

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