OpsAuditHub opsaudithub.com	DOC ID: **SAF-0285**	REVISION: **Rev 2.4 (2026)**
	STANDARD: **ASME B31.3 / 49 CFR Part 192**	AUDIT FREQUENCY: **Per Test Event / Pre-Startup**

Pipeline Hydrostatic Pressure Test Log Safety Audit Checklist

Operational Scope: This checklist establishes mandatory verification protocols for pipeline hydrostatic pressure testing to prevent catastrophic structural rupture and stored energy release. It ensures full compliance with federal integrity operating limits and safeguards personnel within the designated test manifold exclusion zone.

MANDATORY PPE:	Hard Hat (ANSI Z89.1), Impact-Resistant Safety Glasses (ANSI Z87.1), Steel-Toe Boots (ASTM F2413), High-Visibility Reflective Vest, Flame-Resistant Clothing (NFPA 2113)
PREREQUISITES:	Pressure test manifold isolation and blind flange torque verification completed | Exclusion zone established with warning signage and continuous perimeter monitoring | Emergency depressurization and bleed-off containment systems inspected

PRE-TEST MECHANICAL AND INTEGRITY VERIFICATION

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**Test Manifold & Piping Components**	All temporary piping, valves, and fittings are rated for a minimum of 1.5 times the maximum anticipated test pressure and show no structural wear.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
2	**Pressure Relief Valves (PRVs)**	PRVs are certified, tested within the last 12 months, and set to relieve at or below 110% of the maximum allowable test pressure.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
3	**Exclusion Zone & Barricades**	A physical safety perimeter is established at least 50 feet around high-pressure components with active sentry posts and warning banners.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A

INSTRUMENTATION AND DATA LOGGING SETUP

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
4	**Deadweight Tester / Pressure Gauges**	Dual calibrated pressure recording devices (analog gauge and digital data logger) are operational with current calibration certificates.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A
5	**Temperature Monitoring Sensors**	Ambient and test medium temperature sensors are attached directly to the pipeline section to record thermal expansion variations.	**Standard**	[ ] PASS [ ] FAIL [ ] N/A
6	**Communication Systems**	Dedicated intrinsically safe radios or hardwired communication links are established between the pump operator and the control shelter.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A

PRESSURIZATION AND HOLD PHASE MONITORING

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
7	**Step-Pressurization Compliance**	Pressure is increased in controlled increments (not exceeding 25% of test pressure) with mandatory hold periods for stabilization.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
8	**Visual Leak Inspection Protocol**	Personnel approach welds and flanges only during stabilization holds at reduced pressure levels (< 50% max test pressure) with authorization.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
9	**Bleed-Off and Disposal Plan**	Test medium discharge points are anchored securely into designated containment tanks to prevent environmental erosion or flash flooding.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A

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

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