OpsAuditHub opsaudithub.com	DOC ID: **SAF-0297**	REVISION: **Rev 2.4 (2026)**
	STANDARD: **OSHA 29 CFR 1910.22 & NFPA 652 / 654**	AUDIT FREQUENCY: **Daily Pre-Shift**

Combustible Dust Hazard Assessment Daily Log Sheet

Operational Scope: This log sheet governs daily pre-shift inspections of combustible dust accumulation zones in energy processing facilities to mitigate flash fire and explosion risks. Compliance with this operational check is mandatory to meet NFPA safety mandates and ensure zero-tolerance dust mitigation.

MANDATORY PPE:	Hard Hat (ANSI Z89.1), Steel-Toe Safety Boots (ASTM F2413), FR Coverrails (NFPA 2112), Anti-Static Safety Glasses (ANSI Z87.1), N95 Dust Respirator, Grounding Strap / Static Wrist Band
PREREQUISITES:	Verify continuous mechanical ventilation and dust collection systems are fully operational prior to area entry. | Ensure portable gas monitors and combustible gas indicators are calibrated and active. | Review previous shift log entries for any unresolved dust accumulation flags.

DUST ACCUMULATION & SURFACE INSPECTION

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**Elevated Horizontal Surfaces**	Examine beams, cable trays, and duct tops; accumulation must not exceed the 1/32-inch threshold (5% surface area rule per NFPA 654).	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
2	**Dust Collection Hoppers & Bins**	Check hopper level indicators and discharge valves to ensure complete emptying and no bridging of material.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**
3	**Enclosed Conveyor Galleries**	Inspect enclosure seals and transfer points for fugitive dust release, leakage, or unusual material buildup.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**

DUST COLLECTION & FILTRATION SYSTEMS

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
4	**Baghouse Differential Pressure (dP)**	Verify dP gauge reads within engineering specification limits (typically 2 to 6 in. w.g.); no indication of torn filter bags.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
5	**Explosion Vent Panels & Ducts**	Inspect rupture membranes and explosion relief panels for structural integrity, corrosion, and clear unobstructed discharge paths.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
6	**Rotary Airlocks & Abort Gates**	Confirm mechanical operation, seal integrity, and correct interlocking with process shutdown triggers.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**

IGNITION SOURCES & HOUSEKEEPING

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
7	**Electrical Bonding & Grounding**	Verify continuity straps and grounding clamps on all ductwork, silos, and pneumatic transfer lines to prevent static discharge.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
8	**Hot Work & Spark Detection**	Ensure no unauthorized hot work is active nearby and spark detection/extinguishing systems are armed and tested.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
9	**Housekeeping & Vacuum Equipment**	Verify only certified Class II, Division 1 explosion-proof vacuum systems or safe washdown methods are utilized for cleaning.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**

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

COMPLIANCE NOTICE: This document must be archived for a minimum of 12 months in accordance with workplace safety recordkeeping guidelines.

DIGITAL INSPECTION UPGRADE: Run this audit on mobile/tablet, attach photos & automate compliance records. **Start Free Mobile Audit →**