OpsAuditHub opsauditihub.com	DOC ID: **SAF-0229**	REVISION: **Rev 2.4 (2026)**
	STANDARD: **OSHA 29 CFR 1910.1200 Hazard Communication & ISO 22241 Diesel Exhaust Fluid Standards**	AUDIT FREQUENCY: **Weekly Audit & Pre-Operation**

Diesel Exhaust Fluid Def Handling Inspection Checklist

Operational Scope: This inspection checklist governs the safe storage, transfer, and handling of Diesel Exhaust Fluid (DEF) to prevent chemical contamination, equipment damage, and worker exposure. Compliance with this procedure is mandatory to maintain ISO 22241 fluid purity standards and ensure regulatory adherence.

MANDATORY PPE:	Chemical-Resistant Nitrile Gloves (ASTM F739), Safety Glasses with Side Shields (ANSI Z87.1), Chemical Splash Apron, Steel-Toe Safety Boots (ASTM F2413), Long-Sleeve Work Uniform
PREREQUISITES:	Review Safety Data Sheet (SDS) for Diesel Exhaust Fluid prior to handling. | Verify spill containment kit is fully stocked and accessible within 15 feet of the DEF station. | Ensure dispensing area is well-ventilated and free of ignition sources or direct sunlight.

STORAGE TANK & BULK CONTAINER INTEGRITY

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**DEF Bulk Tank and Totes**	Tanks constructed of approved materials (high-density polyethylene or stainless steel) with no structural cracks, leaks, or bulging.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
2	**Secondary Containment Baskets**	Containment basin is clean, dry, and capable of holding 110% of the primary tank volume without standing water or debris.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A
3	**Temperature and Environmental Controls**	Storage area maintains temperatures between 12°F (-11°C) and 86°F (30°C) to prevent fluid degradation or crystallization.	**Standard**	[ ] PASS [ ] FAIL [ ] N/A
4	**Labeling and SDS Signage**	Tanks and dispensing nozzles are clearly labeled 'Diesel Exhaust Fluid' with GHS hazard symbols visible; SDS is posted nearby.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A

DISPENSING EQUIPMENT & CONTAMINATION PREVENTION

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
5	**Nozzles and Fill Spouts**	Dedicated DEF nozzles are free of dust, dirt, oil, and rust; magnetic or mechanical interlocks function to prevent cross-contamination.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
6	**Transfer Hoses and Couplings**	Hoses show no signs of dry rot, kinking, or internal abrasion; camlock fittings are tightly sealed with dust caps in place when idle.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A
7	**Filtration and Pump Systems**	Inline particulate and crystallization filters are within service lifecycle; pump operates smoothly without cavitation or leaks.	**Standard**	[ ] PASS [ ] FAIL [ ] N/A

SPILL RESPONSE & PERSONAL SAFETY GEAR

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
8	**Emergency Eyewash Station**	Eyewash station is unobstructed, tested weekly, and flushes potable water continuously for at least 15 minutes.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
9	**Spill Response Kit**	Kit includes neutralizer, absorbent pads, and disposal bags specifically rated for urea-based fluids; inventory is 100% verified.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A
10	**PPE Inventory and Condition**	Required nitrile gloves, splash aprons, and safety glasses are stocked in clean condition without tears or chemical degradation.	**Standard**	[ ] 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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