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	STANDARD: **OSHA 29 CFR 1926.1400 & ASME B30.9**	AUDIT FREQUENCY: **Daily Pre-Shift**

Crane Lifting Rigging Inspection Compliance Checklist

Operational Scope: Establishes mandatory inspection protocols for all crane and lifting rigging assemblies operating on site. Mitigates the risk of catastrophic load drop, structural failure, and personnel injury through rigorous pre-operational verification.

MANDATORY PPE:	Hard Hat (ANSI Z89.1), Steel-Toe Boots (ASTM F2413), High-Visibility Class 2 Vest, Safety Glasses (ANSI Z87.1), Cut-Resistant Work Gloves
PREREQUISITES:	Review active Lift Plan and verify crane ground bearing capacity conditions. | Establish clear swing radius and pedestrian exclusion zone with warning tape. | Verify crane operator certification and rigger qualifications are current.

CRANE OPERATIONAL & STRUCTURAL PRE-INSPECTION

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**Boom and Jib Structure**	Inspect lattice sections or hydraulic tubes for cracks, paint flaking indicative of bending, missing bolts, or structural deformation.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
2	**Wire Ropes and Spooling**	Check for broken wires (exceeding ASME limits), kinking, crushing, bird-caging, or improper spooling on the winch drum.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
3	**Safety Latch and Hook Assembly**	Verify hook throat opening is within tolerance, safety latch closes fully and securely, and swivel rotates without binding or grinding.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
4	**Outriggers and Stabilizers**	Ensure outrigger beams are fully extended with pins engaged, jacks are fully cribbed on solid pads, and hydraulic cylinders show no fluid leaks.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**

RIGGING HARDWARE & SLING INTEGRITY

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
5	**Synthetic Web and Round Slings**	Inspect for acid/caustic burns, melting, charring, snags, punctures, tears, or exposed core yarns. Ensure legible load rating tag.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
6	**Wire Rope Slings and Flemished Eyes**	Check for severe corrosion, localized wear, broken wires in the tucks, and secure mechanical sleeve/swage integrity.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
7	**Rigging Shackles (Anchor and Chain)**	Verify pin and body are matched by size and manufacturer, pin threads are undamaged, and body shows no excessive wear or stretching.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**

LOAD CONTROL, COMMUNICATION & ENVIRONMENT

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
8	**Anti-Two-Block Device**	Test limit switch functionality manually to ensure it cuts power to hoist up and boom down functions automatically.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
9	**Rated Capacity Indicator (RCI) / Load Moment Indicator**	Confirm digital display is operational, boom angle/length sensors match physical parameters, and alarms sound at threshold limits.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
10	**Wind Speed and Weather Conditions**	Verify sustained wind gusts do not exceed crane manufacturer operating limits (typically max 20-30 mph depending on surface area).	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**

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

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