Concrete Boom Pump Truck Outrigger Setup Checklist

Site / Project		**Address**	
Inspector name		**Company**	
Date		**Time**	

Documentation aid only. Adapt this resource to the site, manufacturer instructions, and applicable local requirements. It does not replace a competent person, professional judgment, legal advice, or a required statutory form.

Inspection checklist

Mobile Equipment Inspection

☐	Visually inspect outrigger arms and pads for cracks, bends, or other damage before each use. (OSHA 1926.1407(a))	☐ Pass	☐ Fail	☐ N/A	Notes:
☐	Inspect hydraulic hoses and fittings for leaks. Repair or replace any leaking components before operation. (ANSI A10.3-2022 Sec. 6.2.1)	☐ Pass	☐ Fail	☐ N/A	Notes:
☐	Verify that outrigger extension locking mechanisms are functioning correctly and securely lock the outrigger arms in the extended position. (BS EN 12001:2012+A1:2017 Clause 5.3.2.1)	☐ Pass	☐ Fail	☐ N/A	Notes:
☐	Inspect tires for proper inflation and any signs of damage (cuts, bulges, or excessive wear). (OSHA 1926.600)	☐ Pass	☐ Fail	☐ N/A	Notes:
☐	Test the horn to ensure it is functioning properly. (OSHA 1926.602(a)(9)(i))	☐ Pass	☐ Fail	☐ N/A	Notes:
☐	Verify that the backup alarm is audible and functioning correctly when the pump is in reverse. (OSHA 1926.602(a)(9)(ii))	☐ Pass	☐ Fail	☐ N/A	Notes:
☐	Confirm the emergency shut-off switch is easily accessible and functioning correctly. (ANSI A10.3-2022 Sec. 6.3.2)	☐ Pass	☐ Fail	☐ N/A	Notes:
☐	Check engine oil, hydraulic fluid, and coolant levels. Top off as needed. (Manufacturer's Recommendations)	☐ Pass	☐ Fail	☐ N/A	Notes:

- [ ] Ensure adequate fuel level for the duration of the concrete pour. (Best Practice) — Pass / Fail / N/A / Notes:
- [ ] Verify windshield wipers are functioning and the windshield is clean for optimal visibility. (OSHA 1926.601(b)(5)) — Pass / Fail / N/A / Notes:

Site Conditions & Outrigger Setup

- [ ] Assess soil bearing capacity. Ensure soil is compacted and capable of supporting the pump truck's weight plus the weight of the concrete and boom. (ANSI A10.3-2022 Sec. 5.4.1) — Pass / Fail / N/A / Notes:
- [ ] Use appropriately sized outrigger pads/dunnage to distribute the load over a sufficient area. Pad size must be adequate for the soil conditions and pump weight. (OSHA 1926.1405(k)(1)) — Pass / Fail / N/A / Notes:
- [ ] Outrigger pads/dunnage must be constructed of materials capable of supporting the load without deformation or failure (e.g., hardwood timbers, engineered composite pads). (Best Practice) — Pass / Fail / N/A / Notes:
- [ ] Ensure the pump truck is level after setting the outriggers. Use a level to verify. (ANSI A10.3-2022 Sec. 5.4.2) — Pass / Fail / N/A / Notes:
- [ ] Inspect for underground utilities (gas, water, electric) before setting outriggers. Call 811 before digging. (OSHA 1926.651(b)(2)) — Pass / Fail / N/A / Notes:
- [ ] Identify and avoid overhead obstructions such as power lines, trees, and structures. (OSHA 1926.1408(a)) — Pass / Fail / N/A / Notes:
- [ ] Maintain minimum clearance distances from overhead power lines as specified by OSHA 1926.1408. Document clearance distance. (OSHA 1926.1408(c)) — Pass / Fail / N/A / Notes:
- [ ] Assess ground slope. Do not set up on excessively sloped surfaces. (Manufacturer's Recommendations) — Pass / Fail / N/A / Notes:
- [ ] Implement adequate traffic control measures (cones, barricades, flaggers) to protect the pump truck and personnel from vehicle traffic. (MUTCD Standards) — Pass / Fail / N/A / Notes:
- [ ] Establish pedestrian barriers to prevent unauthorized access to the work area. (Best Practice) — Pass / Fail / N/A / Notes:

Personal Protective Equipment (PPE)

- [ ] Ensure all personnel in the work area are wearing hard hats that meet ANSI Z89.1 standards. (OSHA 1926.100(a)) — Pass / Fail / N/A / Notes:

- [ ] Ensure all personnel are wearing safety glasses with side shields that meet ANSI Z87.1 standards. (OSHA 1926.102(a)(1)) Pass Fail N/A Notes:
- [ ] Ensure all personnel are wearing steel-toe boots that meet ASTM F2413 standards. (OSHA 1926.96(b)) Pass Fail N/A Notes:
- [ ] Ensure all personnel are wearing high-visibility clothing (vest or shirt) that meets ANSI/ISEA 107 standards. (OSHA 1926.201(a)(1)) Pass Fail N/A Notes:
- [ ] Ensure personnel are wearing appropriate gloves for the task (e.g., leather gloves for handling equipment, rubber gloves for handling wet concrete). (Best Practice) Pass Fail N/A Notes:
- [ ] Assess noise levels. Provide and ensure the use of hearing protection if noise levels exceed 85 dBA. (OSHA 1926.52(b)) Pass Fail N/A Notes:
- [ ] Assess air quality. Provide and ensure the use of respiratory protection if dust or other airborne contaminants are present. (OSHA 1910.134) Pass Fail N/A Notes:
- [ ] Ensure a readily available eyewash station is accessible in case of concrete splash. (OSHA 1926.50(c)) Pass Fail N/A Notes:

Operational Safety

- [ ] Conduct a pre-pour meeting to discuss the pour plan, potential hazards, and emergency procedures. (Best Practice) Pass Fail N/A Notes:
- [ ] Verify that the boom operator has a clear view of the work area and can safely operate the boom without contacting obstructions. (ANSI A10.3-2022 Sec. 7.2.1) Pass Fail N/A Notes:
- [ ] Ensure personnel are trained on proper hose handling procedures to prevent hose whip injuries. (Best Practice) Pass Fail N/A Notes:
- [ ] Use hose restraints (e.g., safety chains, straps) to prevent uncontrolled hose movement in case of a coupling failure. (Best Practice) Pass Fail N/A Notes:
- [ ] Establish clear communication signals between the boom operator and the nozzleman. (ANSI A10.3-2022 Sec. 7.3.2) Pass Fail N/A Notes:
- [ ] Ensure the boom tip is clearly visible to the operator at all times. Use spotters if necessary. (Best Practice) Pass Fail N/A Notes:
- [ ] Monitor wind conditions. Cease operations if wind speeds exceed the pump manufacturer's recommendations. (Manufacturer's Recommendations) Pass Fail N/A Notes:

Inspect the concrete hose for wear, kinks, or damage before each use. Replace damaged hoses immediately. (Best Practice)	Pass	Fail	N/A	Notes:	
Ensure the nozzleman is positioned safely and has a clear escape route in case of an emergency. (Best Practice)	Pass	Fail	N/A	Notes:	

Documentation & Training

Verify that the boom pump operator is certified and trained to operate the specific type of pump being used. (ANSI A10.3-2022 Sec. 4.2.1)	Pass	Fail	N/A	Notes:	
Review the daily inspection log to ensure that the pump has been inspected and is in good working order. (OSHA 1926.1412)	Pass	Fail	N/A	Notes:	
Confirm a site-specific hazard assessment has been conducted and documented. (OSHA 1926.20(b)(1))	Pass	Fail	N/A	Notes:	
Document the outrigger setup, including pad size, soil conditions, and power line clearance distances. (Best Practice)	Pass	Fail	N/A	Notes:	
Verify that all personnel involved in the concrete pour have received adequate training on the hazards and safe work practices. (OSHA 1926.21(b)(2))	Pass	Fail	N/A	Notes:	
Ensure that the pump truck's load charts are readily available and legible. (OSHA 1926.1417)	Pass	Fail	N/A	Notes:	
Review maintenance records to ensure the pump has been properly maintained according to the manufacturer's recommendations. (Best Practice)	Pass	Fail	N/A	Notes:	
Ensure emergency contact information is readily available on site. (Best Practice)	Pass	Fail	N/A	Notes:	

Findings

#	Item	Location	Severity	Action required
1				
2				
3				
4				
5				
6				
7				
8				

Signature

Inspector signature _____ **Name** _____

Date _____