Concrete Pump Hose & Whip Hazards

TRADE: CONCRETE & MASONRY | **LEADER GUIDE: 8-12 MINUTES** | **USE WHAT FITS TODAY**

LEADER NOTE
Do not read this sheet word-for-word. Pick the sections that match today's task, point to the actual equipment/work area, and get the crew to answer the questions out loud.

WHY THIS MATTERS

Before work starts, use this Concrete Pump Hose & Whip Hazards talk to cover hose movement, pressure and struck-by injuries. Point out the equipment, work zone and controls the crew will rely on today. Pressure testing and compressed-fluid work store energy in hoses, fittings, plugs, caps and the test medium. A small component failure can release parts or a hose with violent force. The crew needs a controlled test boundary, rated components, gradual pressurization and a clear depressurization method before anyone approaches the system.

A SCENARIO TO DISCUSS

The crew setting up Concrete Pump Hose & Whip Hazards finds that one hose, fitting, gauge, or temporary cap has no clear pressure rating. The planned pressure is below what the system normally sees. What must be confirmed before the test starts?

BEFORE WORK STARTS

- Confirm the test medium, target pressure, rated components and relief/depressurization method before pressurizing.
- Inspect hoses, fittings, caps/plugs, gauges, restraints and valves and remove questionable components from the test.
- Establish a test boundary/line-of-fire zone and keep people clear while pressure is raised or held.
- Inspect hose, clamps and connections before pumping.
- Keep workers out of the end-hose whip zone during startup, blockage clearing and pressure changes.

SAFE WORK SEQUENCE / CONTROLS

- Inspect hose, clamps and connections before pumping.
- Keep workers out of the end-hose whip zone during startup, blockage clearing and pressure changes.
- Use controlled communication between pump operator and placement crew.
- Never attempt to open a pressurized line or coupling.
- If conditions change, stop long enough to make sure the control for hose movement, pressure and struck-by injuries still works for the job in front of you.

COMMON FAILURE POINTS

- Standing in front of a cap, plug, fitting, hose or connection while the system is pressurized.
- Using a component, hose, gauge or restraint without confirming its rating/condition for the test pressure.
- Troubleshooting a leak or moving a connection before the system is isolated and fully depressurized.

STOP AND RESET IF...

- The test pressure, rated capacity, medium, connection method or relief path is unknown or does not match the plan.
- A hose, fitting, plug, gauge, valve, cap or restraint leaks, moves, bulges, vibrates or shows damage.
- People cannot be kept out of the line-of-fire/test boundary or the system cannot be safely depressurized before adjustment.

QUESTIONS THAT SHOULD CHANGE THE JOB

1. What pressure are we testing/using, what are the rated limits of every component in the test path, and where is that information verified?
2. Where is the line of fire if a hose, cap, plug, fitting, gauge, or connection fails, and how are we keeping people out?
3. How will pressure be raised, monitored, isolated, and safely released before anyone adjusts or disconnects the system?
4. What leak, movement, vibration, bulging, gauge behavior, or other sign means we stop the test and depressurize before troubleshooting?
5. What must be confirmed before the test starts?

MAKE IT REAL ON THE JOB
Point out the pressurized test boundary, line-of-fire locations, gauge/relief point and the exact place pressure will be safely released.

BEFORE YOU RELEASE THE CREW
Before the crew starts, everyone should be able to explain the hazard, point to the control being used today, and name the condition that would make the work stop.

Reference: 29 CFR 1926.702(e) - Concrete Pumping Systems

LidLog

ATTENDANCE & SIGN-OFF

Concrete Pump Hose & Whip Hazards

Project / Job:		**Date:**	
Talk leader:		**Location:**	

CREW ACKNOWLEDGMENT

By signing, attendees confirm they participated in this toolbox talk and had the opportunity to raise job-specific questions. Signatures do not replace required training, qualifications, permits or certifications.

#	Name	Company / Trade	Signature
1			
2			
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QUESTIONS / CONDITIONS / CORRECTIVE ACTIONS

END-OF-TALK CHECK

[ ] Crew can point to the main hazard.	[ ] Critical control is in place and usable.
[ ] The responsible person/check is clear.	[ ] Stop/re-brief conditions were discussed.