

## CONCRETE HANDLING - HOSE HANDLERS AND CREW

### Do's

- Remain outside the reach (danger zone) of the end discharge hose until the operator and hose handler confirms it is safe to approach.
- Ensure the danger zone is clear before each start-up or resumption of pumping.
- Hold the hose firmly with two hands and maintain as much separation as possible while guiding the hose.
- Keep the hose end elevated, about knee-level or two to three feet above the deck.
- Position push/pull tools to prevent injury, ensuring you are out of the line of fire in case the tool slips, breaks, or is struck by the hose.
- Walk forward when moving the hose to avoid tripping or entanglement.
- Use a sturdy rope to move the hose on a deck, ensuring the underside of the rope is not worn or damaged.
- Use a single-ended hose on the discharge to prevent uncontrolled movement.
- Inspect hoses regularly for wear and damage. Do not use hoses with exposed wire or nylon braiding, or with soft spots.
- Keep hands clear when lowering the hose into a wall or column.
- Always maintain visual contact with the pump operator or signal person.
- Agree in advance on communication methods (e.g., hand signals, radios) to direct boom movement safely.

### Don'ts

- Never handle the hose without proper training or prior experience.
- Never kink the hose at any time.
- Never carry the hose on your shoulder.
- Never hug the hose.
- Never hang from the hose.
- Never place yourself between the hose and a fixed object, such as a wall or column.
- Never wrap guide ropes around hands.
- Never walk backward while handling the hose.
- Never use hooks or devices that could cut or kink the hose.
- Never use hoses with damage to the outer covering.
- Never open any clamp unless cleared by the operator.
- Never strike the hose or pipe with a hammer.
- Never allow the tip hose on a boom pump to touch the deck.
- Never attempt to remove a blockage unless directed by the operator.
- Never approach the hose when starting or restarting until the operator confirms it is safe.

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## CONCRETE HANDLING – CONCRETE PUMPING

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### Do's

- Ensure the operator is wearing personal protective equipment (PPE).
- Maintain a minimum distance of 20 feet from power lines.
- Verify that equipment has up-to-date boom inspections and that any necessary repairs have been completed.
- Always use outrigger pads to stabilize the equipment.
- Use safety straps on the tip hose and all other hanging attachments.
- Provide a designated spotter if the boom can extend into the danger zone near power lines.
- Clear all personnel from the area whenever air enters the placement system.
- Ensure that the danger zone of the end hose is clear before starting or resuming pumping, when removing a blockage, during cleaning tasks, or if air has entered the system.
- Immediately stop work and activate the EMERGENCY STOP button if unauthorized people enter the hazard zone.

### Don'ts

- Never use the placing boom as a crane.
- Never allow a pump to operate with extra pipe held horizontally by a crane.
- Never set up or operate the pump in low-light conditions without adequate illumination.
- Never allow anyone near the discharge hose while priming.
- Never exceed the manufacturer's recommended weight limit for attachments hanging from the boom.
- Never operate a boom over an unextended or shorttrigged outrigger.
- Never attach a metal device to the end of the discharge hose.
- Never leave the machine unattended while operating.

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## CONCRETE HANDLING – DELIVERING TO PUMPS

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### Do's

- Always wear personal safety equipment when working around pumps.
- Be aware that electricity can travel to the mixer if the boom becomes energized.
- Alert the operator of any hazards or obstructions.
- Coordinate with the helper/operator when approaching a concrete pump.  
Backing a concrete truck into position near the pump hopper is a high-risk task.
- Report any damage if you see a truck hit the pump.
- Notify the operator of any foreign objects coming from the mixer.
- Know the location of the emergency stop button on the pump.
- Alert the operator or stop the pump if air is sucked in through the hopper.
- Avoid standing next to the discharge elbow at the rear of the pump.
- Avoid overfilling the hopper.
- Ensure all personnel are at a safe distance before leaving the job site.
- Report any hydraulic leaks you observe to the operator.

### Don'ts

- Never place material into the hopper until directed to do so by the operator.
- Never look into a hopper without wearing safety glasses.
- Never let the material level fall too low, which could allow air to enter the delivery system.
- Never stand between the pump and a mixer truck.
- Never take your eyes off the spotter when backing up to a concrete pump.
- Never stand on or allow anyone to stand on the hopper grate of a pump.
- Never wash out into the hopper.
- Never drive under the boom of a pump.
- Never stand on or straddle the concrete delivery line.
- Never stand near the placing line when it is being opened.