
PURPOSE:

The purpose of this best practice is to outline guidelines for adding proper barriers to warn Ground personnel of the equipment's rotating superstructure. This area poses a significant Hazard to workers as they can be struck or crushed by the swinging motion of the Superstructure.

NOTE: This best practice applies to all cranes, piling rigs, and fixed mast drill rigs.

PROCESS:

- Personnel assigned to work on or near equipment must be trained how to recognize struck-by and pinch/crush hazard areas posed by the rotating superstructure.
(Ex: Counterweight swing area, front cab swing area)
- Throughout the work task, the crane operator and supervisor must inspect the work area to identify potential struck-by and pinch/crush hazards to determine the appropriate barricading measures.
- Rig operator shall perform a 360 each time prior to entering the rig to ensure that personnel are not in the restricted area and that warning barriers are securely in place.
- Warning barrier type should be chosen based on the work sequence and equipment being used for pile installation. (See Examples Below)
- The warning barrier should not create additional hazards. (Ex: Tripping hazards)
- The warning barrier should be installed so that it is effective at preventing personnel from walking under it inadvertently.
(Ex: Magnetic post installed low on the cab body, Perimeter barricade on ground at waist level)
 - Swing radius barriers mounted to the superstructure should be a minimum of 270 degrees, allowing a gap for safe operator access and egress.

PAYOFF:

Following this best practice will significantly reduce the risk of accidents involving crane swing radiuses by ensuring that appropriate barricading measures are implemented and enforced.



Example 1. Swing Radius of Counterweight Barrier.






Example 2: Perimeter of Crane Barricade

Crew Review:

Superintendent: Instruct the crew to use their phones to scan one of the QR codes below, which will direct them to a short review session. After personnel enter their information and submit it, training records will be generated and automatically saved for future reference. Utilize this time for open engagement with the crew. Each review will have different questions, which can be answered either as a team or individually.



Approvals		
<u>Title</u>	<u>Signature</u>	<u>Date</u>
BU 15 Vice President		9-4-24
BU 15 Senior Construction Manager		9-4-24
BU15 Manager of Safety		9-4-24

Revision History				
<u>Rev #</u>	<u>Date</u>	<u>Reason for Changes</u>	<u>Originator</u>	<u>Effective Date</u>
1	06-26-2024	Update to new format/ add QR training codes	Lance Bradley	9-4-24

Note: BP Requirement

Work must be performed in accordance with the information in this BP. If it is determined that work cannot be done as required in the document or that it presents additional risk, you must obtain authorization for variance from the Business Unit Sr. Construction Manager and Business Unit Manager of Safety.