

Title: Barricading the Swing Radius of Mobile Cranes

Target Audience: Personnel who Supervise, Operate, or Work with Mobile Cranes



Paragraph 10.11 of NAVFAC P-307 requires that accessible areas within the swing radius of the rotating superstructure of a crane must be barricaded to prevent personnel from being struck or crushed by the crane. The intent of this requirement is to provide a physical barrier to warn and keep employees from entering the danger area where they can be struck or crushed by a rotating crane.

- A “barricade” is typically a device that delineates and warns of a boundary that is not to be crossed, or an obstruction to deter the passage of persons or vehicles.
- Examples include: tapes, screens, rope, wire, chain, “A”-frame type wood or plastic, fencing and other structures that are intended to warn and limit access to an area. There are no strength requirements for the items used.
- The barricade should be installed in a manner that keeps personnel out of the potential danger area. Attachment of warning or caution tape, chains, or rope to the outriggers, carrier frame of the crane, or other objects are acceptable methods.
- Placing a single cone or item between the outriggers or at each outrigger on a mobile crane does not meet the requirement for the barricade unless the item extends the entire length of the accessible area and extends beyond the swing radius of the crane.
- Load testing operations are not excluded from this requirement. Performing a pre-job brief that includes all hazards involved with the operation adds to the level of personnel awareness, but does not remove the requirement to establish the barricade.