

2600SEG124
SAFETY STANDARD FOR CRANE OPERATIONS

APPENDIX C PLATFORMS FOR HOISTING PERSONNEL

The use of a hoisting crane to hoist employees onto platforms is prohibited, except if it were more dangerous to construct, use, and disassemble conventional means to reach the work area, such as personnel elevators, stairs, overhead elevators, platforms or scaffolds, or if it were not possible to do so due to structural obstacles or worksite condition.

Requirements:

The following requirements must be satisfied whenever cranes are utilized under controlled conditions, to lower, raise or suspend personnel.

1. There shall be designated a crane operator and a signalman experienced in the use of personnel platforms for the crane operation.
2. A meeting shall be conducted prior to the hoisting, with the presence of the person in charge, the crane operator, the rigger and/or signalman, and the persons to be hoisted in each work site, and each time there are employees recently assigned to the operation. In the meeting the requirements for exposed hoisting, as stated in this STANDARD and the procedures to be followed shall be reviewed.
3. A hoisting plan shall be prepared by filling out (RSHS) Form 2530 found in INFORED.
4. The line drum to be used for the hoisting shall have a controlled rise and fall device ("power down"). The cranes shall have controls that automatically return to neutral on release ("dead man control"). **The use of the freefall shall be prohibited at all times.**
5. The personnel platform shall be elevated in a slow, controlled, and careful manner, without sudden crane or basket motion.
6. The load lines shall support, without faults, at least seven times the anticipated maximum load, except when rope is used, in which case it must support, without faults, at least ten times the anticipated maximum load.
7. **The total weight of the platform with the load and its rig shall not exceed 50 per cent of the nominal capacity for the hoisting crane's radius and configuration.**
8. For cranes with pneumatic tires, the use of outriggers shall be mandatory.
9. The crane shall be uniformly leveled to less than one per cent inclination, and located on a firm surface.
10. The use of booms with freefall is prohibited.
11. A boom angle and/or radius indicator shall be available in a place easily visible to the operator.
12. **It is mandatory** that the crane have installed a device or system of positive action or a limit switch (anti-block) to avoid contact between the loading block and the boom point.
13. The cranes with extension or hydraulic booms shall be clearly marked and equipped with a device that clearly and at all times indicates to the operator the length of the extended boom, or the exact load radius to be used during the hoisting shall be determined before the hoisting of personnel.
14. The number of employees on the platform shall not exceed the capacity indicated on the platform identification chart.
15. Personnel platforms shall only be utilized for personnel, their tools, and sufficient materials to carry out the job without exceeding its capacity.
16. The system shall consist of four slings for platform stability. The clamps shall be secured with a shackle, and it is required that the hook have a safety catch so that it does not open due to the position of its load. Placing a gagger on the hook is not allowed. The sling, shackles, rings, master links, and other rigging equipment shall support, without fault, at least five times the anticipated maximum load applied or transmitted to this component. All sling lifting eyes shall be manufactured with thimbles. The clamps and corresponding rigging for hooking the basket to the hoisting line shall only be used for the basket and not for any other purpose while it is not lifting personnel. *"As for the hooking of the four hoisting clamp dogs to only one shackle or ring, keep in mind that the shackle or ring shall have been designed and TESTED for FIVE times the anticipated load. Even though the proposed system of hooking each clamp*

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3. The platform shall have a visible and permanent plate indicating its nominal capacity in pounds, and the maximum number of people allowed.
4. All personnel platforms shall be painted in traffic yellow for easy identification.
5. All personnel platforms shall be designed with a system of intermediate and upper handrails, at 21 and 42 inches, respectively.
6. They shall have a perimetric protection from the safety footrail to, at least, the intermediate handrail, at a height of 21 inches of expanded metal, whose opening shall not be greater than ½ inch.
7. Within the platform's interior perimeter, there shall be a handrail installed to hold on to, at 42 inches from the floor.
8. There shall be sufficient space to allow all employees to stand on the platform.
9. When employees are exposed to falling objects, in addition to having them wear their safety helmets, the platform shall be equipped with head protection.
In the event the platforms used (for example, for miter gate restorations) require access through the roof, the hatch access shall open outwardly.
10. When necessary, the platform shall be provided with an access door that swings inwardly. The door shall have a lock to prevent it from opening accidentally.
11. All edges exposed to contact with employees shall be filed off or trued up.
12. All welding shall be performed by a qualified welder.
13. All modifications or repairs performed on the basket, no matter how minor, shall be consulted with, and authorized by, a competent person.