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§ 77.405 Performing work from a raised position; safeguards.
(a) Men shall not work on or from a piece of mobile equipment in a raised position until it has been blocked in place securely. This does not preclude the use of equipment specifically designed as elevated mobile work platforms.
(b) No work shall be performed under machinery or equipment that has been raised until such machinery or equipment has been securely blocked in position.

§ 77.406 Drive belts.
(a) Drive belts shall not be shifted while in motion unless the machines are provided with mechanical shifters.
(b) Belt dressing shall not be applied while belts are in motion except where it can be applied without endangering a person.

§ 77.407 Power-driven pulleys.
(a) Belts, chains, and ropes shall not be guided onto power-driven moving pulleys, sprockets, or drums with the hands except on slow moving equipment especially designed for hand feeding.
(b) Pulleys of conveyors shall not be cleaned manually while the conveyor is in motion.

§ 77.408 Welding operations.
Welding operations shall be shielded and the area shall be well-ventilated.

§ 77.409 Shovels, draglines, and tractors.
(a) Shovels, draglines, and tractors shall not be operated in the presence of any person exposed to a hazard from its operation and all such equipment shall be provided with an adequate warning device which shall be sounded by the operator prior to starting operation.
(b) Shovels and draglines shall be equipped with handrails along and around all walkways and platforms.

§ 77.410 Mobile equipment; automatic warning devices.
(a) Mobile equipment such as front-end loaders, forklifts, tractors, graders, and trucks, except pickup trucks with an unobstructed rear view, shall be equipped with a warning device that—
(1) Gives an audible alarm when the equipment is put in reverse; or
(2) Uses infrared light, ultrasonic waves, radar, or other effective devices to detect objects or persons at the rear of the equipment, and sounds an audible alarm when a person or object is detected. This type of discriminating warning device shall—
(i) Have a sensing area of a sufficient size that would allow endangered persons adequate time to get out of the danger zone.
(ii) Give audible and visual alarms inside the operator’s compartment and an audible alarm outside of the operator’s compartment when a person or object is detected in the sensing area; and
(iii) When the equipment is put in reverse, activate and give a one-time audible and visual alarm inside the operator’s compartment and a one-time audible alarm outside the operator’s compartment.
(b) Alarms shall be audible above the surrounding noise levels.
(c) Warning devices shall be maintained in functional condition.
(d) An automatic reverse-activated strobe light may be substituted for an audible alarm when mobile equipment is operated at night.

§ 77.411 Compressed air and boilers; general.
All boilers and pressure vessels shall be constructed, installed, and maintained in accordance with the standards and specifications of the American Society of Mechanical Engineers Boiler and Pressure Vessel Code.

§ 77.412 Compressed air systems.
(a) Compressors and compressed-air receivers shall be equipped with automatic pressure-relief valves, pressure gages, and drain valves.
(b) Repairs involving the pressure system of compressors, receivers, or compressed-air-powered equipment shall not be attempted until the pressure has been relieved from that part of the system to be repaired.