Safety Devices

Conveyor systems shall be equipped with a time-delay audible and visual warning signal to be sounded immediately before starting of the conveyor. On overland conveyor systems, the devices shall be required only at the transfer, loading, and discharge points and those points where personnel are normally stationed.

Safety devices shall be arranged to operate in such a manner that if a power failure or a failure of the device occurs a hazardous condition would not result.

The safety device shall be designed to prevent the conveyor from restarting until the safety device is manually reset.

All exposed moving machinery parts that present a hazard shall be mechanically or electrically guarded or guarded by location.

a) Nip and shear points shall be guarded.

b) Take-up mechanisms may be guarded as an entity by placing standard railings or fencing, and warning signs, around the area in lieu of guarding each nip and shear point.

c) In the case of a trolley conveyor when mechanical or electrical guarding would render the conveyor unusable, prominent and legible warnings shall be posted in the area or on the equipment and, where feasible, areas barricaded or lines marked on the ground to indicate the hazard area.

d) Guards shall be provided at points where personnel could contact cables, chains, belts, and runaways of exposed bucket conveyors.

e) Unless guarded by location, those sections of chain conveyors that cannot be enclosed without impairing the function shall be provided with warning signs or personnel barriers.

f) Trolley conveyors shall be provided with spill guards, pan guards, or the equivalent if there is a potential for material to fall off the conveyor and endanger personnel or equipment.

g) At transfer, loading, and discharge points, unconfined and uncontrolled free fall of material that may result from flooding, ricocheting, overloading, trajectory, leakage,
or a combination thereof, shall be prevented if the material would create a hazard to personnel.

Note: In the absence of a guard specifically erected to protect personnel, warnings shall be provided to restrict unauthorized personnel from entering such hazardous areas.

h) At all points along the conveyor, except at points where loads are removed from or placed on a conveyor or where a conveyor discharges to or receives material from another conveyor, provisions shall be made to eliminate the possibility of loads or material being dislodged from the conveyor.

i) The build-up of excess material shall be removed from all points along the conveyor.