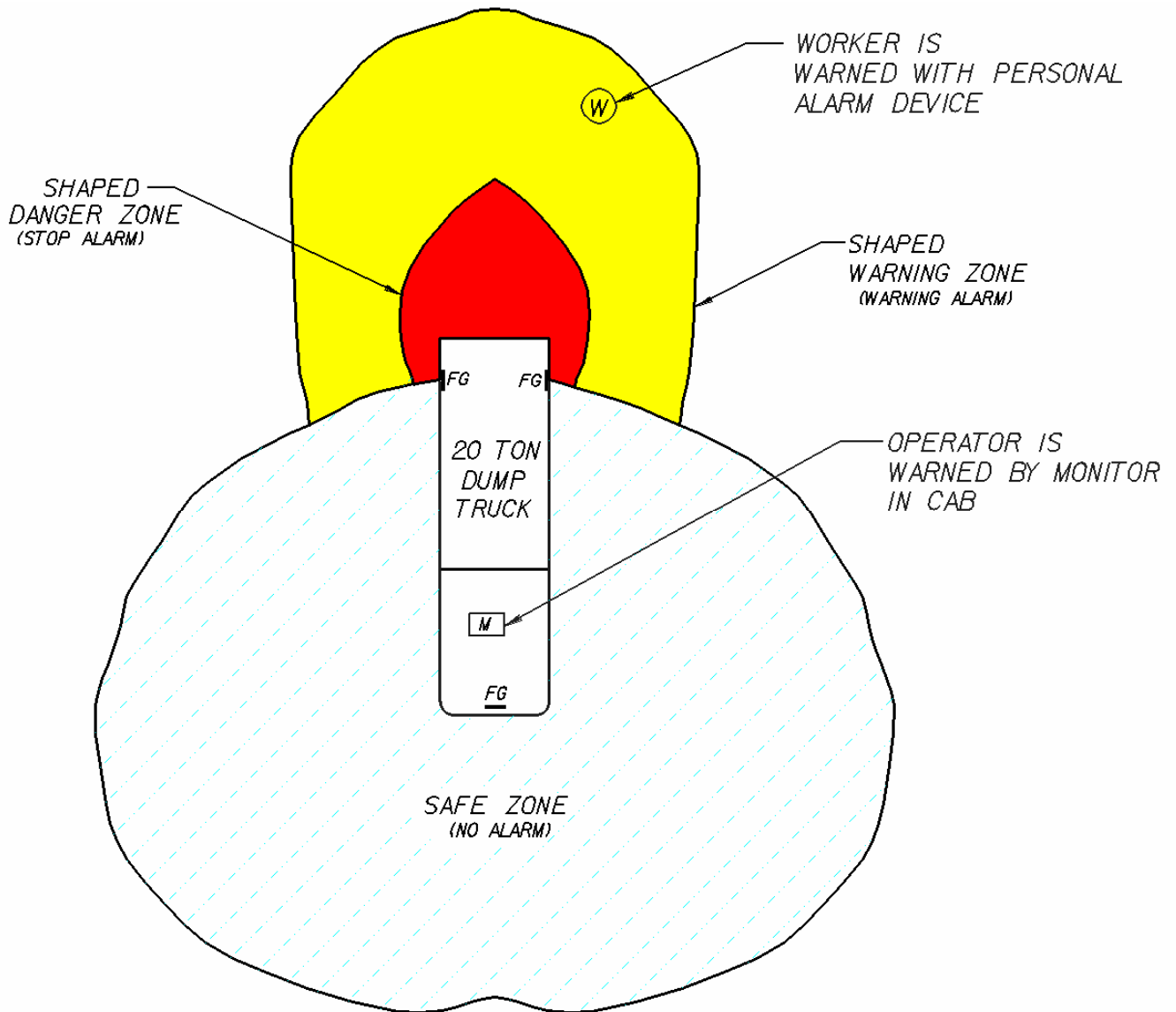




# Hazard/Avert™

## Provides Worker Protection



**Dump Truck Rear Protection Shown**

### **H/A WARNS WORKER AND WARNS VEHICLE OPERATOR**

- **Very reliable and robust in all environments**
- **No Nuisance Alarms**
- **Workers Free to Work in Safe Zone**
- **Operator-Friendly System**
- **Simple to Install, Automatic Calibration**

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**FMC PATENTS PENDING**  
**CDC/NIOSH PATENTS: 5,939,986 & 6,810,353**



# Hazard Avert™ Protection System

- Large numbers of fatalities each year are due to vehicles backing over workers. Dump trucks, haul trucks, fork lifts, graders, rollers, dozers, pavers, and other equipments are involved, occurring in many types of industrial environments. And there are even larger numbers of serious injuries.
- Back-up horns are not very effective because workers ignore alarms that are frequently being sounded, particularly if alarms are sounded when no worker is actually in danger.
- Proximity protection systems and collision avoidance systems of many types have been introduced but have not been widely accepted due to technological and architectural weaknesses, which have been eliminated in the Hazard Avert systems.
- HazardAvert™ uses newly-developed technology to produce a truly effective protection system with essentially no nuisance alarms.
  - Workers have their own personal alarm and are warned only when their safety is jeopardized.
  - Vehicle operators are warned audibly and visually but only when a worker's safety is jeopardized by their vehicle.
  - Workers are free to move within the safe zone, close to the vehicle, without causing an alarm to be given. Nuisance alarms are essentially eliminated.
  - The Warning, Danger, and Safe zones are defined by very stable, consistent magnetic fields that are not significantly affected by surroundings. Very robust.
  - The Shaped Zones better correspond to the critical areas directly behind truck.
  - HazardAvert™ can also be used on dangerous stationary equipment such as conveyors or to protect from other hazards.

**Warning: Hazard Avert is a reliable indicator for safety but can not guarantee safety and is only an indicator. Operators and workers must use safe procedures to ensure safety.**

**Model HA-3SZ: \$2950** (Volume Discounts Available)

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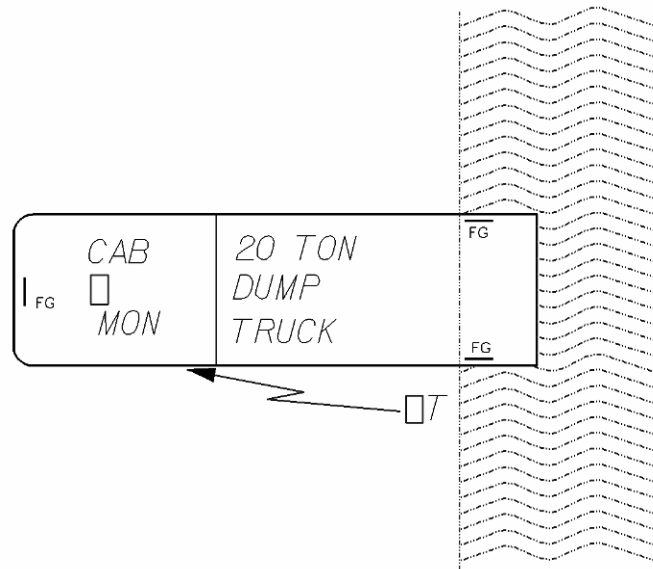
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# Reverse Stop Alarm

## Warning

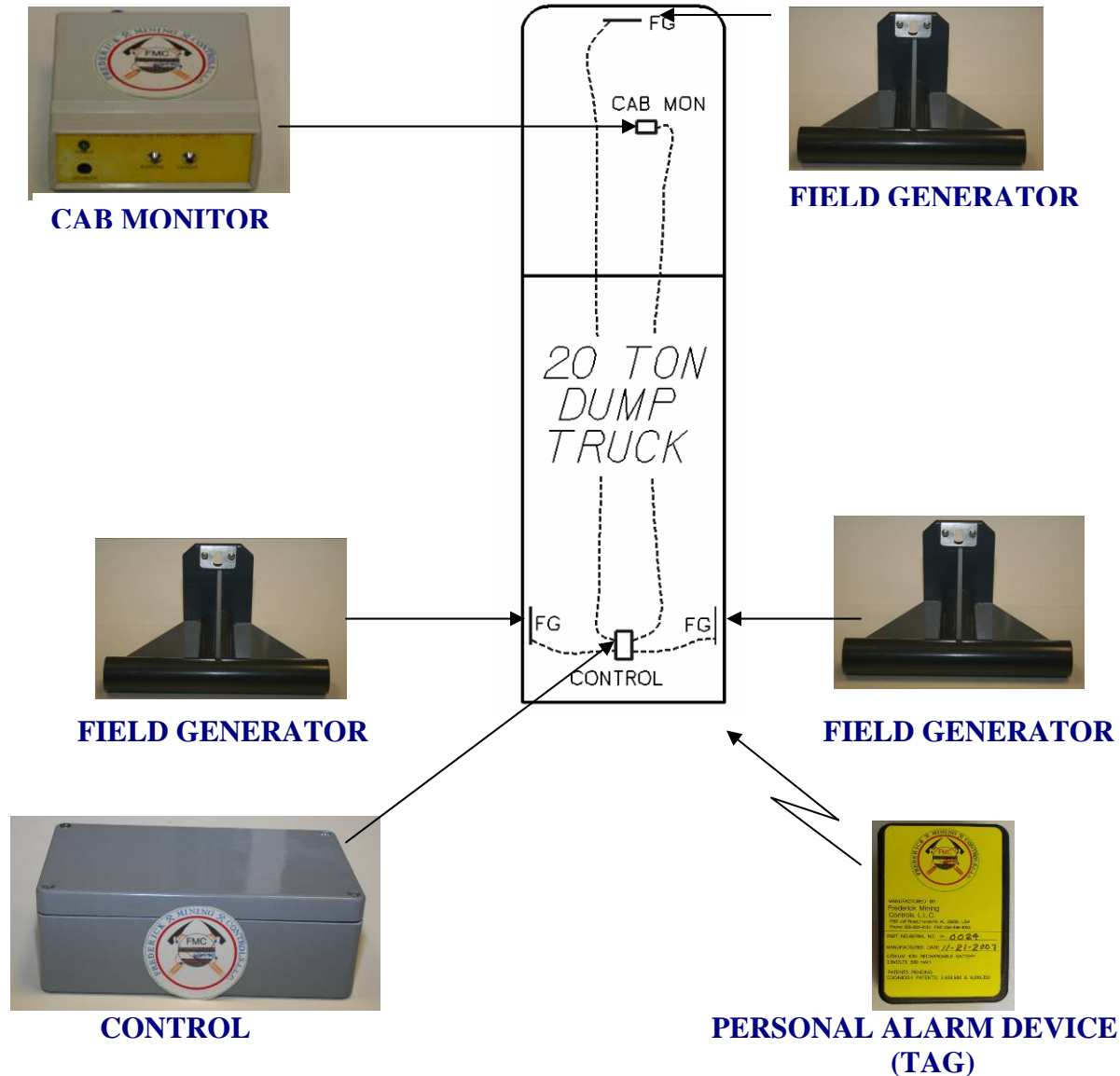
The Reverse Stop Alarm is an indicator to alert the operator to be more aware and can not be relied upon as the basis to stop



- **Accidents often occur when vehicles are being operated in reverse**
  - **Haul trucks sometimes back into loading docks.**
  - **Dump trucks often back up too far and fall over dump points**
  - **Front End Loaders and Fork Lifts back over workers**
  - **Any situation in which a vehicle operator in a working environment does not have good visibility to the rear of the vehicle or when the operator must divide attention between front and rear, there is a risk of striking a worker.**
- **A HazardAvert™ Reverse Stop Alarm can be used in combination with the Model HA-3SZ system to effectively warn the operator that the vehicle reverse motion should be stopped to avoid a hazard.**
- **For example, it can be used at Dump Points.**
  - **A marker pole, supporting a Reverse Stop Alarm Unit, is positioned, typically within about 10 feet of the back end of the dump truck, and is activated by pressing a switch on the unit.**
  - **As the dump truck returns to dump and approaches the designated Dump Point, the operator is alerted audibly and visually in the cab that the Dump point is near.**
  - **A yellow light and sounder will alert the operator that the Dump Point is being approached. A red light and unique sound alerts that the truck is even closer to the Dump Point.**



# Model HA-3Z Proximity Protection System



- RUGGED Generators are mounted with magnetic mounts, plus small stud.
- Rugged, sealed control box is mounted near tail lights under truck bed
- Small monitor provides audible and visual alarms if one or more TAGs are in the shaped Danger Zone or the shaped Warning Zone
- Workers are warned by Personal Alarm Devices that they carry.

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