

Working Safely on the Apron or Highline during Marine Terminal Operations

Workers involved in marine cargo handling are often exposed to being struck by moving vehicles or equipment. Employers must take measures to ensure workers' safety and health while they are on foot on the apron or highline. Workers in marine terminals should be aware of the following safety measures:

- **Safety Zones** – are provided for the protection of workers on foot while on the highline or apron. Workers should always be aware of the safety zone boundaries and stay within the safety zones at all times while haulage equipment is operating.



- **Traffic Lanes** – are provided to guide and align container haulage equipment operating under cranes. Traffic lanes should be wide enough so that haulage equipment never enters the safety zone. Drivers should ensure that equipment stays within the traffic lane. Drivers should also control their speed while passing workers in safety zones.

For more information:



U.S. Department of Labor

www.osha.gov (800) 321-OSHA (6742)

- **Cone Bins** – should be placed in the safety zones, allowing enough space for workers to walk around them without stepping outside of the safety zone into moving traffic. Forklift drivers should ensure that all workers on foot are clear of the forklift and its load while moving cone bins.
- **Personal Protective Equipment (PPE)** – proper PPE must be worn at all times when workers are on foot on the apron or highline area. Examples of such equipment include high-visibility vests, hard hats and safety toe footwear.
- **Equipment Location** – workers on foot on the apron or highline should be aware of haulage equipment and forklift positions at all times. In addition, workers should:
 - Establish and maintain eye contact with haulage equipment operators;
 - Ensure that the equipment operator is aware of the worker's presence;
 - Stay clear of the bight (pinch/nip point) created by chassis bolsters, bomb cart flanges and wheels; and
 - Be aware of the traffic patterns and turn-out points in use.

Workers in marine terminals should remember to:

- Focus attention toward oncoming traffic;
- Maintain eye contact with haulage equipment operators;
- Report to a supervisor immediately if haulage equipment enters a safety zone; and
- Alert coworkers to approaching equipment and loads overhead.

For more information:



U.S. Department of Labor

www.osha.gov (800) 321-OSHA (6742)