A10

Yieh United Steel Corporation (YUSCO)

Preventing fires during transportation of the slag pot

Award: Safety
Category: Workplace improvement

Challenge

Liquid steel and slag splashed out of the slag-pot due to vibrations during transport. The molten steel and slag caused a large fire and damaged the slag-pot car.

The slag pot cannot be filled above the cylindrical protrusion which is used to tip the pot

Action

The standard operating procedures (SOP) for slag-pot transportation were modified. The SOP now states that the pot cannot be filled above its maximum limit, and that the slag-pot should be set aside for one hour after it is removed from the filling position. It can then be sent for disposal in the slag-pot car.

A series of 33 fire hydrants were installed along the slag-pot car's path. The range of each hydrant overlaps in case steel or slag splash out during transportation.

The road was smoothed to limit the vibrations to the slag-pot car. Lighting was also improved so the driver's visibility improved.

Lastly, one person rides a bicycle behind the slag-pot car during transportation. This person can react immediately in case an accident occurs.

A series of 33 overlapping fire hydrants have been installed along the vehicle's path in case of a slag splash during transportation

Outcome

Since the actions detailed above have been implemented, there have been no further accidents. People are safe and the slag-pot car is free of damage.

A safety person rides behind the slag-pot vehicle during transportation