



Nippon Yakin Kogyo

Award: Safety
Category: Workplace Improvement

Countermeasure against Heatstrokes in the High-Temperature Work-Environment

Challenge

At our plant, we have implemented a Safety Priority Action plan to prevent work accidents and health problems amongst employees.

We have High-Temperature Environments in our plant, such as the blast furnace, heat-treating furnace etc. In summer the WBGT* value becomes more than 30 degrees centigrade. Until now, we have already conducted education and training in case of a heatstroke, but in order to improve the situation we need to take drastic measures.

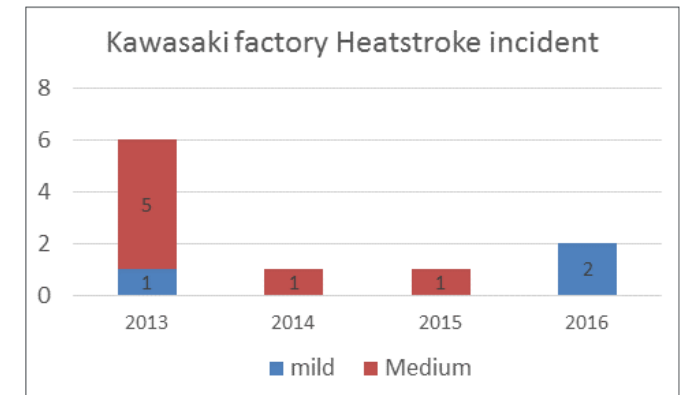
Action

We installed a fan and a Spot Cooler in all the manufacturing offices and distributed sports drinks as a preventive measure against heatstrokes in the workplace. We also furnished the break-room with air-cooling.

Outcome

These actions were started from 2014 and have reduced the occurrence of heatstrokes from 6 per year to 1 or 2 per year. There are also safety measures in place to protect the workers from accumulated fatigue.

As can be seen in the graph, the number of heatstroke incidents was reduced, however there are still a few incidents per year. Our target is to eradicate heatstrokes completely and we will therefore seek further measures.



* The wet-bulb globe temperature (WBGT) is a type of apparent temperature used to estimate the effect of temperature, humidity, wind speed (wind chill), and visible and infrared radiation (usually sunlight) on humans.






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Heatstroke Countermeasure in the High-Temperature Work-Environment

Countermeasures against heat Example

-  Circulator was placed this sign location
 -  spot cooler was placed this sign location
 -  Break room with Cooling
- we installed Circulator and spot cooler as countermeasur.
Airflow made by circulator make spot cooler more effective.

