

# Safety system not working

EPSC Learning Sheet July 2022



When a last line of defence is not working severe incidents happen

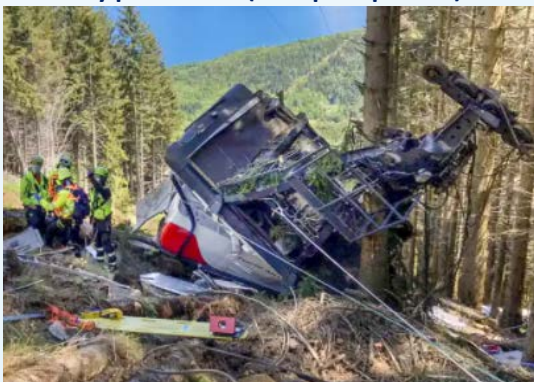
Bhopal: Flare was not working  
(this was known)



Chernobyl: Emergency stop did not  
work (design flaws were known)



Ski-lift Italy: Emergency break  
was bypassed (on purpose)



Macondo oil rig:  
Blow-out preventor failed



## Aspects:

- A solid last line of defence, like SIL rated interlocks, Pressure relieve devices and Passive barriers, are essential for scenario's that involve multiple fatalities. Assure high reliability by a good design, preventive maintenance and regular testing.

A last line of defence, that prevents multiple fatalities, has to work