

Vehicle Rollover and Other Serious Vehicle Incident Prevention

Introduction

It is critical that the managers of both gas companies and transportation companies ensure that they have processes in place to reduce the risk of rollovers and other serious vehicle incidents, to avoid any impact on human life, human health, materials and the environment.

Vehicle incident investigations have shown that the majority of these incidents are avoidable. Many of the causes are related to:

- lack of training or knowledge;
- people's ability to react to high risk situations;
- human behaviour, for example non-compliance with rules or safe driving practices; or
- inadequate organisation and management processes.



Figure 1: A cylinder distribution vehicle rolled over.
The driver died in the vehicle



Figure 2: A tank vehicle rolled over. The driver
died in the vehicle

Scope

This safety information provides advice on reducing the risk of a vehicle rollover and other serious incidents on the road.

Definitions

ABS: anti-lock braking system.

ESP: electronic stability programme.

EBS: electronic braking system.

ESC: electronic stability control.

LDWS: lane departure warning system.

Rollover: where a vehicle or trailer has fallen onto its side or rotated more than 90 degrees.

Learning more about rollover and serious incident prevention

1. Have any of your vehicles been involved in a rollover or other serious incident?
2. Does your business provide specific training on rollover prevention?
3. Does your business provide a clear training curriculum and a system to manage it? (i.e. participation at refreshing trainings)
4. Do you provide drivers with training on the vehicle technology (ABS, ESP, ESC, ESP and LDWS) fitted to your vehicles and trailers?

If the answer to any of the above questions is 'no', then you should consider taking action!

THIS TRANSPORT SAFETY INFORMATION GIVES GUIDANCE ON MEASURES THAT SHOULD BE PUT IN PLACE TO REDUCE THE RISK OF A VEHICLE ROLLOVER OR OTHER SERIOUS INCIDENTS AND ACTIONS THAT WILL HELP TO IMPROVE SAFETY IN ROAD TRANSPORT.

Management processes and actions which can support the prevention of rollovers and other serious incidents:

- Contractor management (see EIGA Info TS 04, *Transport of Gases – Contractor Management*) [1].
- Speed management.
- Fatigue management (see EIGA Info TS 13, *Managing Driver Fatigue*) [2].
- Drugs and alcohol policy.
- Driver health programmes, for example stress, diet, exercise etc.
- Defensive driver training (theory and practice).
- Management policies to reduce the risk of in vehicle distraction when driving, for example use of cell phones, messaging systems, CB radios, eating / drinking when driving and satellite navigation systems (see EIGA Info TS 12, *In Vehicle Distraction Management*) [3].
- Monitoring of harsh braking, aggressive driving style (via tachograph / on board system).
- Education on active and passive driver assistance systems, for example cruise control, proximity sensors, ABS, ESP etc.
- Route planning, scheduling and risk assessment.
- Vehicle maintenance management (see EIGA Info TS 09, *Vehicle Specification and Maintenance*) [4].
- Incident investigation (see EIGA Info TS 06, *Vehicle Incident Investigation Management*) [5].
- Coaching or retraining after an incident or a near miss.