

The

Communiqué

...a technical reference bulletin by the Risk Control
Services Department of the Glatfelter Insurance Group

Vehicle Rollover Prevention

Emergency vehicle rollovers are an all too frequent cause of vehicle damage. They are also a cause of serious injury and fatalities. Very often however, these incidents are of a highly preventable nature. All emergency vehicles are subject to rollovers but, tankers, pumper tankers and ambulances are particularly vulnerable because of their high centers of gravity.

The simplest method of prevention, is for the emergency vehicle driver to just slow down. Excessive speed greatly reduces the drivers ability to control the vehicle on curves or when making evasive steering moves. Driving at a reduced speed will increase the drivers' ability to keep the vehicle under control under a wider range of circumstances. Excessive speed increases the likelihood that the weight will shift and cause the vehicle to be uncontrollable.

In addition to excessive speed and shifting weight, another leading cause of vehicle rollover is oversteering after dropping off the road surface onto the shoulder of the road. Oversteering will cause the vehicle to rollover by causing the weight to severely shift from one side to the other and/or by the vehicle tires gripping the road at an excessive angle once brought back off of the shoulder.

The potential for this type of incident increases as the difference in height between the road surface and the shoulder increases. The greater the difference in height the greater the angle of steering must be applied to overcome the resistance of the road surface against the tires of the vehicle. Once the tires are at a great enough angle to overcome the resistance and return to the driving surface they will either grip and shoot the vehicle in the opposite direction or will buckel and roll. Either way, the results are the same.....a wrecked vehicle.

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This is a sample guideline furnished to you by VFIS. Your organization should review it and make the necessary modifications to meet the needs of your organization. The intent of this guideline is to assist you in reducing exposure to the risk of injury to personnel and the general public from injury or property damage. For additional information on this topic, you may contact your VFIS Risk Control Representative at 1-800-233-1957



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Vehicle Rollover Prevention

The following safe driving points will increase the emergency vehicle driver's ability to maintain control of their vehicle should he/she run off of the road surface onto the shoulder:

Things To Do:

- 👉 Take your foot off of the accelerator and allow the vehicle to slow down gradually
- 👉 Do not apply full braking! Use soft application of the brakes, natural deceleration and downshifting to bring the vehicle to a safe speed or complete stop
- 👉 Under soft shoulder conditions feather the accelerator to help maintain control of the vehicle while slowing
- 👉 Once the vehicle has been stopped or been brought down to a safe speed, gently steer the vehicle back onto the road surface using a lower gear and/or feathered acceleration to assist in overcoming the surface drop off or soft shoulder

Things Not To Do:

- 👉 Do not attempt to steer back onto the road surface at speed or under acceleration
- 👉 Do not make any sudden or drastic steering movements
- 👉 Do not apply full braking
- 👉 Do not attempt to accelerate over the surface drop off

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