



## Coal Seam Gas Industry

### IVMS Minimum Settings for Light Vehicles

#### INTRODUCTION

The CSG Industry has a vital interest in maintaining safe, healthy and efficient working conditions.

The Industry accepts that one of its highest risks is presented by the operation of vehicles throughout urban, rural or remote locations.

In-Vehicle Monitoring Systems (IVMS) are a key control that can be used to determine the location of a vehicle in the event of an emergency and to influence and improve overall driving performance.



#### KEY LEARNINGS

The IVMS Minimum Settings for light vehicles:

- Establish a consistent approach to configuration of IVMS systems to avoid confusion across the CSG industry.
- Capture a minimum of data that can be used to locate a vehicle, modify driving behaviour, improve driving performance, and to benchmark across the Coal Seam Gas industry.
- Align with APPEA's "CSG FACTS Light vehicle minimum specifications" and the International Association of Oil and Gas Producers' "Land Transportation Safety Recommended Practice".

Sharing Safety Solutions case studies are produced by APPEA to highlight innovation and best practice across the Australian oil and gas industry. For more information or to nominate a project, contact Leanne Drewitt, Project Manager – Safety & Operation, [ldrewitt@appea.com.au](mailto:ldrewitt@appea.com.au). Find out more online at [www.appea.com.au](http://www.appea.com.au)



## CHALLENGES

The APPEA Vehicle Safety Guideline recommends the use of In-Vehicle Monitoring Systems (IVMS) for vehicles operating in rural and remote locations. It also identifies minimum system requirements in regard driver identification and monitoring of location, speeding, impacts, roll-overs and other driving behaviour.

However, the Vehicle Safety Guideline is generic and can be applied differently by companies according to their requirements, work culture and risk profile associated with operating vehicles.

The Coal Seam Gas industry and its contractors and sub-contractors operate a large number of vehicles

throughout urban, rural, and remote locations. Consultation within the Coal Seam Gas Industry has identified a common set of minimum IVMS settings for Light Vehicle IVMS units; introducing consistency throughout the industry. The minimum settings are described in Appendix A and establish a consistent approach to IVMS configuration, capturing data that can be used to improve driving performance and benchmark across the Coal Seam Gas industry.

Establishing a consistent IVMS setting regime does not prevent any organisation from establishing a performance and consequence management framework particular to its work culture and risk profile.

## SOLUTIONS

IVMS System Requirement	Setting
<b>SEAT BELT MONITORING</b>	
<b>Driver and Passenger seat belts</b>	Any movement, any duration (where seatbelt detector fitted)
<b>SPEED MONITORING</b>	
<b>Designated Speed (including geo-fenced zones)</b>	> Designated speed*
<b>Maximum Speed</b>	> 110 kph
<b>Warning alarm</b>	Audible alarm when maximum or designated speed exceeded*



IVMS System Requirement	Setting
<b>FATIGUE MONITORING</b>	
<b>Maximum driving time between rest breaks and minimum rest break time</b>	> 2hrs without 15 minute continuous rest break*
<b>Warning alarm</b>	Audible alarm at 1¾ hr journey time*
<b>ACCELERATION/DECELERATION MONITORING</b>	
<b>Harsh Braking</b>	> 12 kph/sec or 0.34g
<b>Excessive Harsh Braking</b>	> 18 kph/sec or 0.51g
<b>Harsh Acceleration</b>	> 12 kph/sec or 0.34g

**Notes:**

\* Implementation subject to the IVMS unit technical capability

**References:**

- CSG FACTS Light vehicle minimum specifications, APPEA
- Land transportation safety recommended practice, International Association of Oil & Gas Producers, London, July 2011
- Land transportation safety recommended practice, Guidance Note 12, International Association of Oil & Gas Producers, London, July 2011

**SUMMARY**

- This document encompasses IVMS settings for hybrid and four wheel drive light vehicles (<4.5 tonne).
- It applies to all CSG companies and their contractors and sub-contractors.
- Each employee and contractor is responsible for demonstrating the competencies required by this document.
- Management is responsible for the implementation and enforcement of this document.