

Paragraph/figure/table	Recommendation	Comment/Justification
Part A 4.1 Vehicle fuel system integrity P.13	Here is the list of ISO standards. They should be under the heading: International standards instead of Industry standards ISO 17268 Compressed hydrogen surface vehicle refuelling connection devices ISO 23273-1 Fuel cell road vehicles — Safety specifications — Part 1: Vehicle functional safety ISO 23273-2 Fuel cell road vehicles — Safety specifications — Part 2: Protection against hydrogen hazards for vehicles fuelled with compressed hydrogen	As presented by ISO in Budapest.
Part A 4.3 Electrical safety P.14	Here is the list of ISO standards. They should be under the heading: International standards instead of Industry standards ISO 23273-3 Fuel cell road vehicles — Safety specifications — Part 3: Protection of persons against electric shock	As presented by ISO in Budapest.
Part A 5.2.1 In-Use P. 20-21	The TUV requirements should be moved to Part B.	All these requirements are general requirements that should be kept as mandatory. Part A is only intended to provide some background information, not specify requirements.
Part B 5.2 Vehicle fuel system P.41	Overpressure protection for the low pressure system should be covered.	From ISO consultation, we understand that the low pressure system represented a safety matter.
Part B .2 Vehicle fuel system P.41	Airtightness test and shut-off valves: There is a need for further discussion on these matters.	These are still outstanding issues that need further discussion.
Part B 5.2.2 Gas fuelling port P.41	Gas fuelling port: The gas fuelling port shall comply with ISO 17268 for 35 MPa.	The fuelling receptacle is an important component of the system from a compatibility and safety point of view.

<p>5.2.1.2 Single failure of hydrogen fuel system P. 42</p>	<p>The SGS should reconsider the maximum volume fraction of hydrogen in air. 4 % is the lower flammability limit. It should be lowered to 1 %.</p>	<p>Most of the standards where hydrogen is being used limit the volume fraction to 0,25 % LFL (1 % of hydrogen in air) before triggering a remedy action.</p> <p>Similarly, any leakage in the enclosed or semi-enclosed space of the vehicle that results in a volume fraction of hydrogen in air above 1 % should trigger a remedy action. As the enclosed and semi-enclosed spaces within a vehicle are small, further precautions should be taken to avoid a rise in the concentration above LFL. The 1 % limit will provide the system with time to react before the situation becomes catastrophic.</p>
<p>Part B 5.2.1.2.3 Driver warning p. 43</p>	<p>The tell-tale should be prescribed. For safety reasons, the same warning should be provided when the conditions of 5.2.1.2.3 are met.</p>	<p>Considering the importance of this warning, it is important that drivers are familiar with the sign.</p>