

SLR-22-07



机动车和挂车回复反射装置 标准草案介绍

Draft Standard for Retro-Reflector on Motor Vehicle and Trailers



● 标准所涉及的产品

- GB 11564-2008 机动车回复反射器 （ 对应于 ECE R3 ）
 - “Retro reflector device for motor vehicles”
- GB 19151-2003 机动车用三角警告牌 （ 对应于ECE R27 ）
 - “Warning triangles for motor vehicle”
- GB 23254-2009 货车及挂车 车身反光标识 （ 技术内容类似ECE R104 ）
 - “Retro-reflective markings for trucks and trailers”
- GB 25990-2010 车辆尾部标志板 （ 对应于ECE R69和ECE R70 ）
 - “Rear-marking plates for vehicles and their trailers”

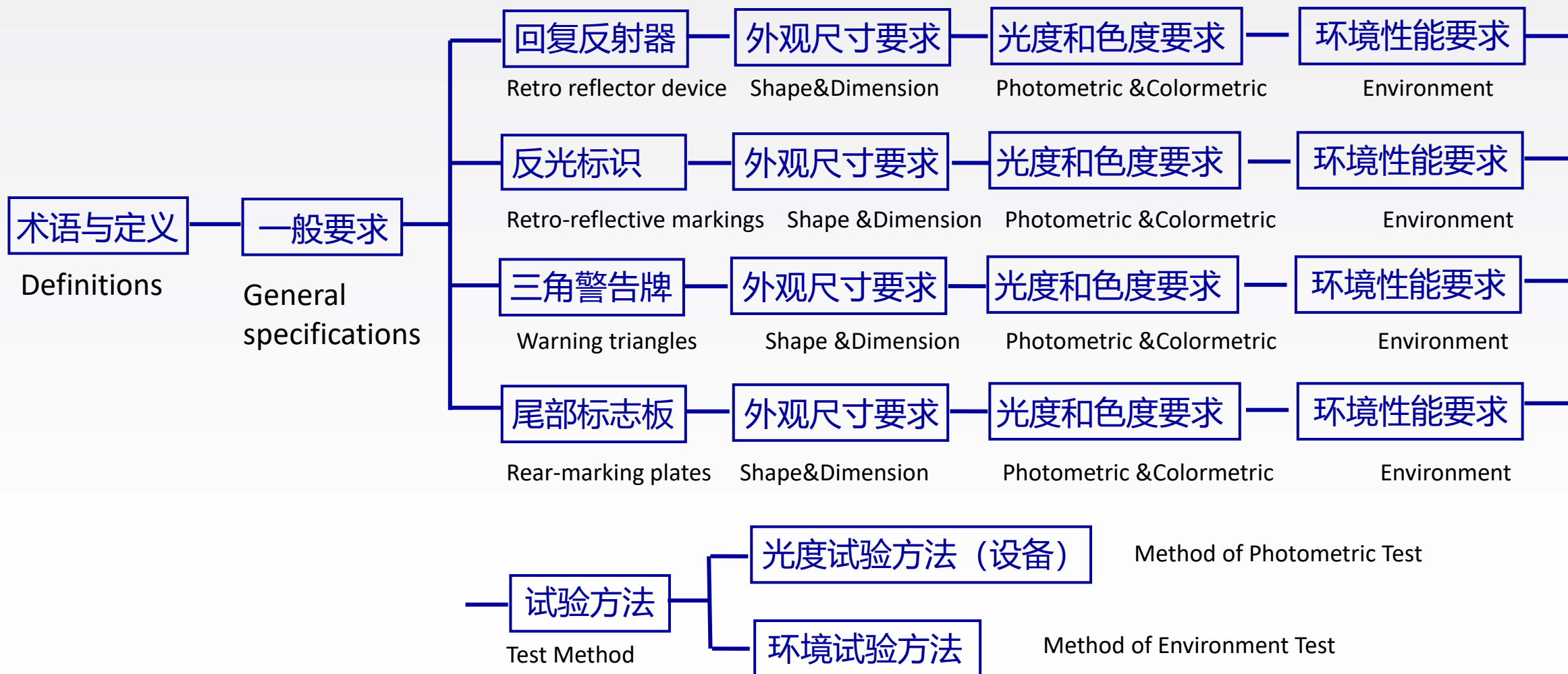


● 标准的整合构想Key of Integration

- 产品的形状尺寸：与原标准标尺一致 Specification of Shape, Size, and Dimensions remains same
- 光度性能：按产品的不同，分开规定光度要求和色度要求。但统一检测方法（设备）的要求。
- Photometric performance has different photometric and color requirements, but unify the requirements of test methods and test equipments
- 环境性能等：对于共性试验，统一试验方法；对于根据产品要求差异，按产品特性分别提出。
- Environment Performance: Harmonize Test methods, different requirements to different products



● 标准主体技术内容部分 – Technical structure



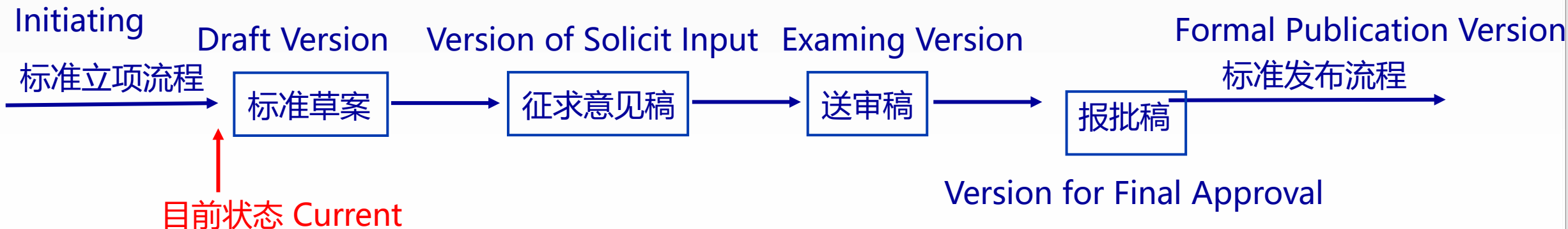
机动车和挂车回复反射装置

● 标准目前的进度 Current progress

- 《机动车和挂车回复反射装置》目前已经完成立项



- 标准目前的版本：草案前期 Current in early Stage of Draft version





● 标准技术内容变化Change of Technical Contents

- 目前标准从结构上来看，还是原来几个标准内容的整合，随后我们会根据国内外产品和标准法规情况，进行修改。

- 回复反射器
- 三角警告牌
- 尾部标志板

标准技术要求源于ECE Retro-reflector, Warning Triangle, Rear Marking Plate reference to ECE

- 反光标识

标准技术要求源于FMVSS，照射角，观察角，光度值等参数均与ECE R104不同；

Technical requirements of Angle of Divergence, Illumination Angle, Illuminate of Retro Reflector Devices are different to ECE R104

产品功能上类似ECE R104中的C级标识；

Related Scope of Functions similar to C Class in ECE R104

颜色为红色和白色； Color requirements: Red & White

尺寸规定为： Class IVA Retro Reflector which Size above 150mmX50mm can be used as Retro Reflector Marking ;

以上尺寸的IVA类回复反射器可以作为反光标识使用。





● 标准技术内容变化 – Technical modifications

- 光度性能调整 Change of Photometric Performance

	回复反射器 Retro Reflector	三角警告牌 Warning Triangle	反光标识 Retro Reflective marker	尾部标志板 Rear Marking Plate
原标准	GB 11564	GB 19151	GB 23254	GB 25990
光度性能 Photometric Performance Requirements	调整IVA类反射器的光度值 Modify photometric performance requirements of IVA Class	不变 No Change	增加道路运输爆炸品和剧毒化学品车辆标识 (Marker of explosive substance and chemical toxic substance) 提高二级车身反光标识光度性能要求 Increase the photometric performance requirements of Class II	探讨只保留使用反光膜的尾部标志板的可能性 Discussing possibility to keep only the one using reflective film

机动车和挂车回复反射装置



● 标准技术内容变化 Technical modification

- 环境性能调整
Environmental testing modifications

Product	Retro-reflector	Warning Triangle	Retro-reflecting Marker	Rear Marking Plate	
Original standard	GB 11564	GB 19151	GB 23254	GB 25990	
Common tests	Temperature	Add Low Temperature	Adjust High Temperature Test	Unchange	Adjust High Temperature Test
	Water submersion	Adjust Timing and Method	Adjust	Adjust	Adjust
	Fuel	Unchange	Adjust Timing	Adjust	Adjust Timing
	Corrosion	Adjust	Unchange (no requirements)	Unchange	Adjust Timing
	Lubricating oil	Unchange	New Item	Adjust Timing	New Item
Specific tests	Impact	Unchange	New Item	Unchange	Adjust
	Weather Fastness	New Item	Unchange	Unchange	Adjust
	rear face, mirror back)	Unchange	Unchange	---	---
	Adhesion	---	---	Unchange	Adjust
Resistance to external agents	防水防尘 (I B、III B) Dust exposure, Moisture Test	Ground Clearance	Resistance Banding	Resistance Banding	Rubustness
		Structure Stability	Delete Flushing durability	Delete Flushing durability	Delete Cleaning durability
		Resistance to Wind	---	---	---