
CIRCULAR O-4-18
COMPLIANCE WITH DESIGN RULES ON LIGHTING

INTRODUCTION

1. Motor vehicles and trailers manufactured on or after 1 October 1991 are required to comply with the Third Edition Australian Design Rules (ADRs) for lights and light signalling devices.
2. This Circular provides details in relation to the methods of demonstrating compliance with particular reference to new vehicles using 'off-the-shelf' lamps or trade lamps, e.g. trailers and heavy goods vehicles, and how lamp manufacturers and suppliers could assist vehicle manufacturers in this regard.
3. The ADRs referred to as lighting ADRs in this Circular are ADRs 1/.., 6/.., 45/.. to 55/.. and 60/.. where the notation xx/.. refers to the current version of ADRxx. Unless otherwise mentioned the reference to lamps also applies to reflectors as part of lighting and light signalling devices on a vehicle. Reference to a lamp manufacturer also applies to a lamp supplier.

SUBMISSION OF SERs

4. Summary of Evidence Reports are required for vehicles certified under normal procedures, i.e. in volumes of more than 100 per annum.
5. Where the lamps are specific to a particular vehicle model the lamp manufacturer usually provides the test information to the vehicle manufacturer who then submits the SER to the Administrator as part of the documents for certifying a vehicle. Information lodged by a vehicle manufacturer is not available for use by cross referencing by others without the written consent of the former.
6. Where the lamps are not specific to a vehicle model the lamp manufacturer may lodge the SER directly with the Administrator and thereby allow various vehicle manufacturers using the same lamp to cross reference the one SER without each of them having to submit the same SER.
7. Vehicle manufacturers who wish to avail themselves of the arrangements in paragraph 6 should approach lamp manufacturers to obtain the information necessary to reference the lamp manufacturer's SERs in their vehicle certification documents.

e.g. Where a vehicle manufacturer wishes to use the SER information provided by a lamp manufacturer for a stop lamp, the following information must be provided on the vehicle manufacturer's CA Annex A form (or AD form).

- i) In column 1 - ADR No. (49/00 in this example)
- ii) In column 2 - Reference number of the lamp manufacturer's SER
- iii) In column 3 - Lamp manufacturer's name
- iv) In column 4 - Function of the lamp ('stop lamp' in this example) and part number or other identification number of the component.

VEHICLES NOT SUBJECT TO TYPE APPROVAL

- 8. Trailers less than 4.5t ATM are not certified by the Administrator but are required to comply with the applicable ADRs including the lighting ADRs.
- 9. Trailer manufacturers provide an assurance of compliance with the ADRs through the statement "This trailer was manufactured to comply with the applicable Australian Design Rules" displayed on a plate affixed to the trailer in accordance with Vehicle Standards Bulletin No 1/... (the current revision to VSB1).
- 10. This assurance is expected to be supported by the retention of information including technical data. The Administrator will not hold test evidence for lights and light signalling devices intended for trailers less than 4.5t ATM.
- 11. In the case of lamps, some ADR requirements such as photometric output cannot be determined without testing in a suitable laboratory. In addition, the results of laboratory tests would not be relevant if the lamps are not installed on a vehicle in the same orientation as was used in the tests.
- 12. Lamp manufacturers providing lamps for which they claim compliance with an ADR must also provide installation instructions with each lamp to enable vehicles fitted with such lamps to comply with the ADRs. This also applies to lamps approved to ECE Regulations accepted as alternative standards in the ADRs.

13. A vehicle manufacturer using lamps would need to ensure the following information is provided by the lamp manufacturer and retained by the vehicle manufacturer

- i) Lamp identification - including manufacturer and part number markings on the lamp which unambiguously identifies the lamp.
- ii) Functions - for which the lamp has been tested and found complying including the position on the vehicle.
- iii) Standard(s) - the ADR(s) to which the lamp was tested.
- iv) Installation - instructions regarding orientation of the lamp on the vehicle and its angles of visibility after installation.
- v) Statement - an assurance of ADR compliance from the lamp manufacturer by the statement "This lamp was manufactured to comply with ADR(s)" (indicating the applicable ADRs)

14. Manufacturers of 'off-the-shelf' lamps should provide on the outside of the packaging of each lamp, the information referred to in paragraph 13 except that the installation instructions may be provided within the package.

