

1. Australian Design Rules (ADRs)

Airservices Aviation Rescue Fire Fighting Service (ARFFS) vehicles are required to comply with the ADRs and relevant State and Territory roadworthy requirements which includes the regulations of the National Heavy Vehicle Regulator.

In the ARFFS vehicles previously purchased, there are three key elements where we required the supplier to modify the vehicles to meet ADRs and the regulations of the National Heavy Vehicle Regulator:

- a) Axle Mass Limits (Australian limit of 12 tonnes per axle and European design generally greater than 12 tonnes per axle) - modification required to meet 12 tonne requirement
- b) Modifications for left-hand drive vehicles to meet Australian right-hand drive requirements
 - o E.g. Exhaust outlet location/configuration - European models typically have exhaust on left-hand side of vehicle (i.e. not kerb side in Europe – left-hand drive). Australian requirement for exhaust on right-hand side (not kerb side).
- c) Side Marker Light Spacing - potential need for additional lights

Exemptions from the ADRs

Airservices currently has a number of exemptions in place for its Mark 8 vehicles where it is impractical to meet requirements. These include:

- ADR30/01 – Exhaust Emissions (exemptions from specific colour of exhaust emissions)
- ADR43/03 - Maximum width (3000 mm requirement – vehicles are 3005 mm)
- ADR65/00 - Maximum speed (requirement 105 km/hr – ASA vehicles 120km/hr)
- ADR80/03 – Emissions Standard (content – Euro5, etc)
- ADR83/00 – Drive by Noise Test (ARFFS vehicles noisier than ADR requirement)
- ADR84/00 – Front Underrun Impact Protection (relates to height requirement)

2. CASA Requirements (specifically around ADRs)

Civil Aviation Safety Regulations (CASR) Part 139H Manual of Standards (MOS):

- 4.1.1.5 As vehicles are replaced, they must meet Australian Design Rules (ADR), State or Territory roadworthy requirements.
- 4.1.1.6 All operational vehicles must have a current State or Territory road worthy certificate
- 5.1.1.1 ARFFS vehicle performance and specification are referred to in Chapter 6, ICAO, Airports Service Manual, Part 1, Rescue and Fire Fighting.
- 5.1.1.2 Additional information is available in National Fire Protection Association (NFPA) 414, Aircraft Fire Fighting Vehicles.