This document is a summary of the electrical requirements detailed in ADR and other UK documents.

This summary must be read in conjunction with the following documents:

ADR 2023 - Part 9

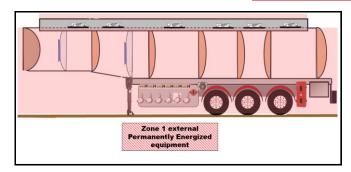
FCS 1364:2019 - ADR 'FL' & 'AT' Vehicle Radio Communication Equipment Installation

Energy Institute - Petroleum Road Tanker Design & Construction - 4th Edition - October 2019

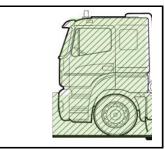
Safe Loading Pass - Clasues 2.4; 5.2 and 5.3

Zone 1 Zone 2 IP 65

Permanently Energised Equipment

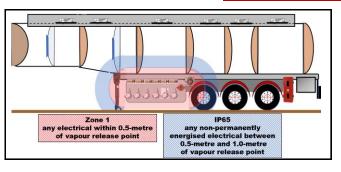


- ... which is not subject to 9.2.2.3 and 9.2.2.4, shall meet the requirements for Zone 1 for electrical equipment in general (ADR 9.2.2.9.1 (b))
- ... which is situated outside Zones 0 and Zone 1, shall meet the requirements for Zone 1 for electrical equipment in general (ADR 9.7.8.3)
- ... Radio equipment shall meet the requirements for Zone 1 (including transmitters / receivers with integral batteries)

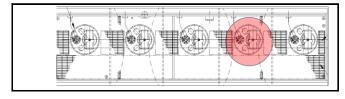


- permanently energised equipment situated in the cab (ADR 9.2.2.9.1 (b))
- ... which is situated outside Zones 0 and Zone 1, shall ... meet the requirements for Zone 2 according to IEC 60079 part 14 for electrical equipment situated in the driver's cab (ADR 9.7.8.3)
- ... Radio transmitter / receiver equipment situated in the cab (FCS 1364 4.2.2)

Non-Permanently Energised Equipment



- ... electrical equipment installed (<500 mm) adjacent to tank service equipment (ADR 9.7.8.2) Note: includes side
- ... electrical equipment situated inside cabinets for equipment used for filling and discharge (ADR 9.7.8.2)
- ... electrical equipment installed (>500 mm < 1 000 mm) from tank service equipment - IP 65
- ... electrical equipment installed (> 1 000 mm) from tank service equipment - no restriction



... tank top electrical equipment within 0.5-metre of compartment breather devices and other openings shall be protected to Zone 1 standards (ADR 9.7.8.2)

Terminology:

permanently energised

- electrical equipment not disconnected / reconnected by the operation of the master switch
- electrical equipment (including hand-held devices) that incorporate integral batteries

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