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Dangerous Goods Tank Design Approval Application - AS 2809.5:2022 Compliance Report

#### AS2809.5 – Requirements for vehicles transporting bitumen-based products

You must explain how the tank vehicle will comply with each of the clauses in the standard listed below. It is not sufficient to state that the vehicle complies (except for very simply requirements), you must explain how the vehicle complies with the relevant requirements contained in the standard, with reference to evidence where necessary. This ensures the reviewer can confirm whether the vehicle is compliant.

If there are any items that are not compliant, contact the EPA to discuss these non-compliances before submitting the application. While in some circumstances, the EPA may approve a tank vehicle that does not comply with a particular requirement, you will need to explain:

* why the variation from the standard is necessary?
* what alternative criteria the variation should be assessed against?
* why the design does not result in greater risk than one that complies with the requirement?

This document must be submitted along with an application for a dangerous goods tank design and the other relevant compliance reports.

##### Clauses that refer to other parts of AS 2809

Clauses in the table below that are marked with an asterisk (\*) refer to other parts of AS 2809. Comments provided in these sections should assess compliance against the relevant provisions in the referred parts of the standard.

| Clause | | Compliant (Y, N, N/A) | Comment/Explanation | Reference (specs / drawings) |
| --- | --- | --- | --- | --- |
| 1.5.1\* | Spillage hazards |  |  |  |
| 1.5.2\* | Engine exhaust |  |  |  |
| 1.5.3\* | Combustion cabin heaters |  |  |  |
| 1.5.4 | Stowage of hoses and equipment |  |  |  |
| 2.1\* | Materials |  |  |  |
| 2.2\* | Tank design and construction |  |  |  |
| Tank info\*  SEE [[1]](#footnote-1)NOTE | Tank type and material |  |  |  |
| Cargo density |  |  |  |
| Rated capacity per metre |  |  |  |
| Maximum shell radius |  |  |  |
| Unreinforced length of shell & material |  |  |  |
| Compliance with minimum thickness |  |  |  |
| 2.3.1\* | Compartment openings |  |  |  |
| 2.3.2 | Valves |  |  |  |
| 2.3.3 | Vents |  |  |  |
| 2.3.4 | Normal venting |  |  |  |
| 2.3.5 | Emergency venting |  |  |  |
| 2.4.1 | Filling |  |  |  |
| 2.4.2 | Dipstick |  |  |  |
| 2.4.3 | Temperature measurement |  |  |  |
| 2.5.1 | Suitability |  |  |  |
| 2.5.2\* | Strength of piping |  |  |  |
| 2.5.3 | Provisions for movement |  |  |  |
| 2.5.4 | Hoses and hose couplings |  |  |  |
| 2.5.5 | Recirculation and filling pipework |  |  |  |
| 2.5.6 | Flushing system |  |  |  |
| 2.6\* | Electrical bonding |  |  |  |
| 2.7\* | Earthing point |  |  |  |
| 2.8.1\* | Tank pressure testing |  |  |  |
| 2.8.2\* | Piping pressure testing |  |  |  |
| 2.9.1 | Insulation suitability |  |  |  |
| 2.9.2 | Insulation cladding |  |  |  |
| 2.9.3 | Insulation isolation from burner tubes |  |  |  |
| 2.11 | Signage |  |  |  |
| 3.1.1 | Type of heating system |  |  |  |
| 3.1.2 | Safety and training |  |  |  |
| 3.1.3 | Overtemperature protection |  |  |  |
| 3.1.4 | Minimum safe heating level |  |  |  |
| 3.1.5 | Heating in transit |  |  |  |
| 3.2.1 | Gas and liquid fuel burner systems |  |  |  |
| 3.2.2 | Burner tube |  |  |  |
| 3.2.3 | Flame tube |  |  |  |
| 3.2.4 | Flue |  |  |  |
| 3.2.5 | Interlocks |  |  |  |
| 3.2.6 | Flame safeguard system |  |  |  |
| 3.2.7 | Level sensing |  |  |  |
| 3.3.1 | Gas burner design and construction |  |  |  |
| 3.3.2 | Gas storage |  |  |  |
| 3.3.3 | Pipework and associated components |  |  |  |
| 3.3.4 | Burner flame visibility |  |  |  |
| 3.3.5 | Burner system purging |  |  |  |
| 3.3.6 | Burner system markings |  |  |  |
| 3.4.1 | Liquid burner design and construction |  |  |  |
| 3.4.2 | Fuel storage |  |  |  |
| 3.4.3 | Pipework and associated components |  |  |  |
| 3.4.4 | Burner system purging |  |  |  |
| 3.4.5 | Burner system markings |  |  |  |
| 3.5.1 | Electric heating system – general |  |  |  |
| 3.5.2 | Heater element isolation from cargo |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Vehicle description: | enter text. | Manufacturer: | enter text. |
| Capacity: | enter text. | Number of compartments: | enter text. |
| I declare the information I have supplied in this application is not false or misleading and is an accurate assessment of the design against the standard. | | | |
| Name | enter text. | | |
| Position | enter text. | | |
| Email | enter text. | | |
| Signature |  | Date | enter text. |

1. NOTE Provide information on the parameters from AS 2809.2 2023 table 2.2.12(A) (and modified by AS 2809.4:2022 Table 3.1 as required): in order to ascertain which shell, head and baffle thickness requirements should apply to this design, the following information is required: rated capacity per metre of tank length, maximum shell radius and maximum unreinforced length of shell. [↑](#footnote-ref-1)