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Dangerous Goods Tank Design Approval Application – AS 2809.4:2017 Compliance Report

## AS2809.4: Requirements for vehicles transporting toxic or corrosive cargoes

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: 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.

| Clause | | Comment/Explanation | Reference (specs / drawings) | Compliant (Y, N, N/A) | Office use only |
| --- | --- | --- | --- | --- | --- |
| 2.1 | Application – type 1, 2 or 3 |  |  |  |  |
| 2.2.1 | Design criteria |  |  |  |  |
| 2.2.2 | Design pressure |  |  |  |  |
| 2.2.3 | Materials |  |  |  |  |
| 2.2.4 | Lining |  |  |  |  |
| 2.2.5 | Baffles |  |  |  |  |
| 2.2.6 | Compartment openings |  |  |  |  |
| 2.2.7 | Valve protection |  |  |  |  |
| 2.3.1 | Shut-off valves |  |  |  |  |
| 2.3.2 | Pressure relief devices |  |  |  |  |
| 2.3.3 | Outlet connection |  |  |  |  |
| 2.3.4 | Piping |  |  |  |  |
| 2.4.1 | Requirements for Type 1 tanker |  |  |  |  |
| 2.4.2 | Piping |  |  |  |  |
| 2.4.3 | Pumping equipment |  |  |  |  |
| 2.4.4 | Tank openings – location |  |  |  |  |
| 2.4.5 | Tank openings |  |  |  |  |
| 3.1 | Application – type 4 or 5 |  |  |  |  |
| 3.2.1 | Standards – tank materials |  |  |  |  |
| 3.2.2 | Chemical resistance |  |  |  |  |
| 3.2.3 | Lining |  |  |  |  |
| 3.3.1 | Tank and support design |  |  |  |  |
| 3.3.2 | Tank shape |  |  |  |  |
| 3.3.3 | Stiffening heads & baffles |  |  |  |  |
| 3.3.4 | Circumferential reinforcement |  |  |  |  |
| TABLE 3.1 and  3.2  [[1]](#footnote-1)NOTE | Tank type |  |  |  |  |
| Rated capacity per metre |  |  |  |  |
| Maximum shell radius |  |  |  |  |
| Unreinforced length of shell & material |  |  |  |  |
| Compliance with minimum thickness |  |  |  |  |
| 3.3.5 | Baffles – number & access |  |  |  |  |
| 3.3.6 | Distribution of loads |  |  |  |  |
| 3.3.7 | Separation of liquids |  |  |  |  |
| 3.3.8 | Enclosed air spaces |  |  |  |  |
| 3.3.9 | Component attachment |  |  |  |  |
| 3.3.10 | Roll-over protection |  |  |  |  |
| 3.3.11 | Welding |  |  |  |  |
| 3.4.1 | Manholes, valves and vents |  |  |  |  |
| 3.4.2 | Compartment openings |  |  |  |  |
| 3.4.3 | Valves |  |  |  |  |
| 3.4.4 | Provision of vents |  |  |  |  |
| 3.4.5 | Top openings |  |  |  |  |
| 3.5.1 | Pipework – suitability |  |  |  |  |
| 3.5.2 | Provisions for movement |  |  |  |  |
| 3.5.3 | Pipework fail-safe provisions |  |  |  |  |
| 3.6.1 | Pumps – suitability |  |  |  |  |
| 3.6.2 | Prevention of overpressure |  |  |  |  |
| 3.7.1 | Pump drives – protection |  |  |  |  |
| 3.7.2 | Shielding of pump shaft |  |  |  |  |
| 3.7.3 | Location of controls |  |  |  |  |
| 3.8 | Cables and fittings |  |  |  |  |
| 3.9.1 | Tank test |  |  |  |  |
| 3.9.2 | Hatch assembly test |  |  |  |  |
| 3.9.3 | Piping test |  |  |  |  |
| 3.9.4 | Inspect and test hoses |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 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. |

NSW Environment Protection Authority

Email: [info@epa.nsw.gov.au](mailto:info@epa.nsw.gov.au)

Website: [www.epa.nsw.gov.au](http://www.epa.nsw.gov.au/)

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1. NOTE TABLE 3.1 and 3.2: To ascertain which shell, head and baffle thickness requirements should apply to this design, the following information is required: tank type (small compartment, large compartment U-type, large compartment R-type) rated capacity per metre of tank length, maximum shell radius and maximum unreinforced length of shell. [↑](#footnote-ref-1)