**Technical Standards**

**Storage**

Tank Construction Testing Certification & Listing:

 BS-EN 12285 – 2 : 2005

 4 Hour Fire Rating

 SwRI Standard 95-03 and 93-01

 UFC A-II-F-1

 UL2085

Monitoring & Gauging:

 **Directive 94/9/EC**

 EN 60079-0 : 2006

 EN 60079-11 : 2007

 EN 60079-26 : 2007

 **Directive 2004/108/EC (EMC)**

 EN 61000-6-2 :2005

 EN 61000-6-3 :2007

 **ATEX**

The Refuels Ltd Supervault MH Tanks have the following systems in line with UL2085 (US) & KIWA (EU) requirements:

* HLCO High level cut-off alarm system.
* Real time tank content volume and temperature monitoring.
* Dry brake user couplings.
* Vapour recovery integral for uplifting operations.
* User specific security and access control.
* Integral self bunding.
* Earth circuit continuity.
* PPV Pressure proportioning.
* Frangible disc explosion protection.

They are also subject to Type Approval consisting of testing against those standards as below:

* 4-Hour, 2000º F Fire Test, Internal temperature increased only 165º F
* Immediately after the Fire Test the hot tank is exposed to a Hose Stream Test
* The same tank is shot with 5 rounds of 150 grain M-2 ball ammunition (823m/sec.) The bullets penetrate the outer containment tank and stop in the insulation.
* Finally, the same tank is exposed to another two-hour fire test with the same pass/fail criteria of the first.

General Site Requirements

* Tank size – 7.8 metres length, 2.1 metres height & 1.8 metres width.
* Hard standing for tank and vehicle operations.
* Intercepted, contained or groundwater secured vehicle operations area.
* Security lighting.
* Security controlled – gated or monitored.
* Appropriate access / egress.

**Transportation**

European Agreement Concerning the Carriage of Dangerous Goods By Road (ADR 2025)

The Carriage of Dangerous Goods by Road Regulations 2009 (As Amended)

**Commissioning/Decommissioning and operation of Sites**

APEA’s Guidance for Design, Construction, Modification, Maintenance and Decommissioning of Filling Stations (Blue Book 5th Edition). Our original documentation for unmanned operation (decant and uplift documents) and emergency actions were written by Rex Wheeler, who was the main contributor to this Petroleum Industry Standard “Blue Book”.