



# Storage Tank Design And Construction Guidelines

**David Baud**



## **Storage Tank Design And Construction Guidelines:**

Design and Construction of LNG Storage Tanks Josef Rötzer, 2019-08-22 Weltweit wird die Nutzung von Erdgas als Primärenergieträger noch Jahrzehnte unverzichtbar bleiben. Dies gilt sowohl für die Industrie und Schwellenländer als auch für die Entwicklungsländer. Bedingt durch die geringen Verunreinigungen gilt Erdgas unter den fossilen Brennstoffen als ein klimaschonender, da CO<sub>2</sub>-Emissionen geringer sind, aber auch als ein bezahlbarer Energieträger. Um den Transport über weite Strecken wie auch über Ozeane zu ermöglichen und damit eine wirtschaftliche und politische Alternative zu Pipelines zu erzeugen, wird das Gas unter erheblicher Volumenreduktion verflüssigt und mit Schiffen transportiert. An den Export- und Importhäfen sind Flüssiggastanks zur temporären Lagerung und zur weiteren Nutzung erforderlich. Die Tendenz zu kleineren Verflüssigungs- bzw. Verdampfungsanlagen mit den zugehörigen Lagertanks für die Nutzung als Schiffstreibstoff hat neue Marktteilnehmer hervorgebracht, die oftmals noch nicht über die erforderliche Erfahrung und technische Kompetenz verfügen. Der Verweis auf alle vorhandenen Normen reicht nicht aus, um widerspruchsfreie und dem Stand der Technik entsprechende Vorgaben und Anforderungen zu definieren. Durch die Umstellung auf europäische Normung wurden die Bearbeitung und Anpassung der vorhandenen nationalen Normen auf einen europäischen Standard, unumgänglich. Komitees und Normenausschüsse auf nationaler und internationaler Ebene haben die Arbeit aufgenommen, um die Normenreihe EN 14620 zu aktualisieren und zu ergänzen. Aber auch in den USA werden die entsprechenden Vorschriften aktualisiert. Die Bearbeitung der 2011 erstmals erschienenen amerikanischen Vorschrift des American Concrete Institute ACI 376 Requirements for Design and Construction of Concrete Structures for the Containment of Refrigerated Liquefied Gases wird im Frühjahr 2019 abgeschlossen und die Vorschrift mit detaillierten Angaben zu Planung und Ausführung im Herbst veröffentlicht. Das vorliegende Buch gibt einen Überblick über den Stand der Technik hinsichtlich Planung und Ausführung von Flüssigerdgastanks (LNG-Tanks). Da die Thematik sehr umfangreich und vielschichtig ist, wird hier eine Einführung in die einzelnen Bereiche gegeben, wie zum Beispiel Anforderungen und Auslegung im Betriebszustand, thermische Auslegung, Flüssigkeits- und Gasdruckprüfung, Untersuchung des Baugrunds und zulässige Setzungen, Berechnung und Modellierung der Betonstruktur sowie die besonderen Einwirkungen aus Feuer, Explosion und Impact. Auch die dynamische Berechnung mit der Theorie der schwappenden Flüssigkeit wird dargestellt.

Reclamation Manual: Design and construction, pt. 2. Engineering design: Design supplement no. 2: Treatise on dams; Design supplement no. 3: Canals and related structures; Design supplement no. 4: Power systems; Design supplement no. 5: Field installation procedures; Design supplement no. 7: Valves, gates, and steel conduits; Design supplement no. 8: Miscellaneous mechanical equipment and facilities; Design supplement no. 9: Buildings; Design supplement no. 10: Transmission structures; Design supplement no. 11: Railroads, highways, and camp facilities United States. Bureau of Reclamation, 1950

**Above Ground Bulk Storage Tank Emergencies** Hildebrand, Gregory G. Noll, Bill Hand, 2017-12-21 Objectives and overview of storage tanks Codes standards and regulations Tank design and

construction features Fireground operations Firefighting foam water supply and fire protection requirements Tactical response guidelines Glossary

**Regulations ... for the Design and Construction of Concrete Fuel Oil Storage Tanks** ... National Board of Fire Underwriters,1923

**Recommended Rules for Design and Construction of Large, Welded, Low-pressure Storage Tanks** American National Standards Institute,1979

**Handbook of Storage Tank Systems** Wayne B. Geyer,2000-01-20 This timely reference surveys manufacturing and installation methods standards and specifications of factory made steel storage tanks and appurtenances for petroleum chemicals hydrocarbons and other flammable or combustible liquids It chronicles the trends toward secondary containment aboveground storage tanks and corrosion resistant underground steel storage systems Written by over 20 leading experts in industry this handbook discusses relevant fire safety and building codes construction specifications and environmental regulations making it a valuable asset for chemical pollution environmental industrial mechanical and civil engineers to name only a few

Guide for the Analysis, Design, and Construction of Elevated Concrete and Composite Steel-Concrete Water Storage Tanks ACI Committee 371,American Concrete Institute,2008 This guide presents recommendations for materials analysis design and construction of concrete pedestal elevated water storage tanks Both the all concrete tank and the composite tank consisting of a steel water storage vessel supported on a cylindrical reinforced concrete pedestal are included Concrete pedestal elevated water storage tanks are structures that present special problems not encountered in typical environmental engineering concrete structures This guide refers extensively to ACI 350 for design and construction of those components of the pedestal tank in contact with the stored water and to ACI 318 for design and construction of components not in contact with the stored water Determination of snow wind and seismic loads based on ASCE SEI 7 is included These loads will conform to the requirements of national building codes that use ASCE SEI 7 as the basis for environmental loads or conform to the requirements of local building codes Special requirements based on successful experience for the unique aspects of loads analysis design and construction of concrete pedestal tanks are presented

*Steel Water Storage Tanks (M42)* AWWA Staff,1998-06

*Standards and Specifications for Nonmetallic Minerals and Their Products* John Quayle Cannon,1930

California Underground Storage Tank Regulations California Environmental Protection Agency. State Water Resources Control Board,1997

ACI Manual of Concrete Practice American Concrete Institute,2002

**"Code of Massachusetts regulations, 1991"** ,1991 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020

**Proceedings of the Annual Convention - American Concrete Institute** American Concrete Institute,1919

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*Proceedings of the ... Annual Convention Held at ...* American Concrete Institute. Annual Convention,American Concrete Institute,1919

**American Society of Heating and Ventilating Engineers Guide** American Society of Heating and Air-Conditioning Engineers,1926

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