

API Standard 620 - Design and Construction of Large, Welded, Low-Pressure Storage Tanks

Edition	Section	Inquiry No.	Questions	Reply
9th - Feb. 1999	1.2.1	620-1-16-00	1. Does Section 1.2.1 prohibit tanks with conical roofs and conical domes from being marked as being in accordance with API Standard 620? 2. Does Section 1.2.1 prevent tanks with flat bottoms from having a slope?	1. No. 2. No.
9th	General	620-1-29-00	1. Does API 620 require that weld procedures be qualified by standard qualification tests in accordance with ASME Section IX, using the contractors actual welding procedure, without any all-weld tensile tests, except for the additional tests required by Question 2 below? 2. Does API 620 require or permit additional, separate qualification tests for proof of weld metal strength assumed for design using the ASME test piece as per Figure 9 of AWS 5.11, which will be different from Reply 1 above (since single-sided welds with backing strips are not used for tank construction)? 3. Does API 620 allow the use of test pieces for proof of weld metal strength assumed for design in accordance with AWS 5.11, Table 3, note 1, which is referred to by Figure 2, note 1 of AWS 5.11, and which specifically permits the use of butt-joint carbon steel test pieces?	1. Yes 2. Yes 3. Yes
10th - Feb. 2002	4.2 Table 4-1	620-1-13-02	Can 1/2 in. & 3/4 plate (not & 5/8 plate) be used for the shell of an API 620 tank with a design metal temperature of 50 and 7?	Yes. Refer to API 620 Table 4-1 and Section 4.2.3.2.
9th - Feb. 1999	4.2.3		For a tank design to which API 620 requires impact testing of plate material per Section 4.2.3: (a) Should the long dimension of impact test specimen be parallel to direction of maximum stress (hoop stresses are not equal) and the minimum absorbed energy value per Table R-2? or (b) Should the impact test specimen be taken transverse to the final plate rolling and the absorbed energy value per Table R-2?	As stated in API 620, Section 4.2.3, the direction of the axis of the impact test specimen is dependent upon the direction of plate rolling by the mill. The direction of maximum stress when installed in the tank is not a factor. The impact test energy criteria applicable to either type of specimen is per Table R-2, or per Table R-3 where applicable.
10th - Feb. 2002	4.2.3.2	620-1-06-02	Should the thickness stated in Table 5-1, Table 5, be 1/4 in.?	Yes. This was a typographical error introduced in the previous edition of the standard. This note will be corrected in the next edition of this 620.

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9th - Feb. 1999	4.2 Table 4-1	620-1-06-00	1. Is it permissible to utilize plate materials at design metal temperature and thickness combination which are outside the limits contained in API 620, Table 4-1 if impact testing is performed? 2. Does API 620 allow impact testing to be performed in lieu of normalizing for combinations of plate material grade, thickness and design metal temperature that require normalizing? 3. May impact testing be utilized in lieu of normalizing for plate materials where Table 4-1 of API 620 and the ASME specification require normalizing at g, & 5/8 with thickness greater than 1/2 in.?	1. No. 2. No. 3. No.
10th - Feb. 2002	5.1.1	620-1-05-02	Are conical roofs, conical domes, cone roofs, and conical, and conical, sloped to one side, among those designs for which API 620 does not present design rules as noted in Section 5.1.1?	Yes.
9th - Feb. 1999	Figure 5-6	620-1-11-00	Is the width of lap of the roof panels, ends or beneath the compression ring plate, prescribed in Figure 5-6 Details a, 1, 1-1, and g?	No. See 5.22.1.3
9th - Feb. 1999	Figure 5-6	620-1-12-00	May the lap width of the roof panels, ends or beneath the compression ring plate, prescribed in Figure 5-6, Details a, 1, 1-1, and g be double lap welds or single lap welds if the appropriate joint efficiency and inspection are applied?	Yes.
9th - Feb. 1999	Figure 5-6	620-1-13-00	May the roof be butt-welded to the compression ring as an alternative to the lap weld shown in Figure 5-6 Details a, 1, 1-1, and g, if all requirements for circumferential butt welds are met?	Yes.
9th - Feb. 1999	Figure 5-6	620-1-14-00	1. Does the compression, $W_F = L \times 60$, apply to Figure 5-6 Detail a as well as to Figure 5-6 Details f and g? 2. Does the outward extension limitation of a maximum of 1/8 of the plate compression ring in Figure 5-6, Detail a apply as well to Figure 5-6 Details f and g?	1. Yes. 2. Yes.
9th - Feb. 1999	Figure 5-6	620-1-15-00	1. Is the dimension, W_F , of Figure 5-6 Details f and g, a limitation on the greatest inward physical projection that a plate compression ring may have?	1. No.

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Design and Construction of LNG Storage Tanks Josef Rötzer, 2019-08-15 Weltweit wird die Nutzung von Erdgas als Primärenergieträger noch bis Jahrzehnte unverzichtbar bleiben. Dies gilt sowohl für Industrie und Schwellenländer als auch für Entwicklungsländer. Bedingt durch die geringen Verunreinigungen gilt Erdgas unter den fossilen Brennstoffen als ein klimaschonender, da CO₂-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 Importen 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 uneinheitlich. 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.

Storage Tanks Selection, Design, Testing, Inspection, and Maintenance: Emission Management and Environmental Protection Karan Sotoodeh, 2024-01-09 Emission prevention and environmental protection are hot topics in the oil and gas industry and many countries, especially in the United States. Among sources of pollution in the oil and gas industry, storage tanks used to store products such as oil or liquefied natural gas (LNG) are considered the second most significant source of emissions after industrial valves. Storage Tanks Selection, Design, Testing, Inspection, and Maintenance: Emission Management and Environmental Protection provides the latest research and technological advancements in storage tank design, including materials selection, welding, and techniques used

order to reduce or prevent emissions This book will detail essential information regarding inspections testing and maintenance that are performed to prevent the failure of storage tanks and will also explore the different types of storage tank emissions and provide recommendations for the preventive as well as safety systems that are critical to minimize the failure of storage tanks Researchers engineers industry professionals and students in the environmental safety field will find this book to be a welcomed resource to learning about and working on storage tank emissions in the oil and gas industries Provides detailed understanding of the problems and hazards of emission in the oil and gas industries Presents mechanical designs of storage tanks by considering various loads e g axial bending wind earthquake etc to prevent failure Details studies of corrosion assessment of storage tanks Introduces safety systems in the oil and gas industries and the effect of tank selection on emission **Federal Register** ,2013-08 *Code of Federal Regulations* ,2017 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries 2017 CFR Annual Print Title 49 Transportation Parts 178 to 199 Office of The Federal Register,2017-07-01 API Standards 620, 650, and 653 Interpretations--tank Construction and In-service Inspection ,1997 **Petroleum Engineering Handbook** Howard B. Bradley,Fred W. Gipson,1987 **Technical Resource Document for the Storage and Treatment of Hazardous Waste in Tank Systems** ,1986 **Indiana Administrative Code** ,1996 **Chemical Process Safety** Daniel A. Crowl,Joseph F. Louvar,2019-03-01 The 1 Process Safety Guide Now Extensively Updated for Current Industrial Processes Systems and Practices Process safety has seen a dramatic consolidation of concepts in the past few years Chemical Process Safety Fourth Edition provides students and working engineers with the understanding necessary to apply these new concepts to safely design and operate any process Long the definitive guide in the field this edition fully reflects major recent advances in process safety technology and practice Readers will find extensive new and updated coverage of relief sizing hazards identification risk assessment and many other topics Several chapters have been completely rewritten and all are substantially modified This textbook includes 50 new problems and solutions mostly in SI units and 25 new case histories Safety culture Preventive and mitigative safeguards The CCPS 20 elements of Risk Based Process Safety RBPS Toxicology industrial hygiene and source models Hazardous material dispersion Fires explosions and concepts for preventing them Chemical reactivity Reliefs and relief sizing Hazards identification and evaluation Risk analysis and assessment including Layer of Protection Analysis LOPA Safety strategies procedures designs case histories and lessons learned Crowl and Louvar link key academic concepts to modern industrial practice making this guide invaluable for all engineering students and for all working engineers Register your product for convenient access to downloads updates and or corrections as they become available See inside book for details Indiana Register ,1991 Mekeel's Weekly Stamp News I. A. Mekeel,Charles Esterly Severn,Stephen B. Hopkins,1925 **Consideration of Report to the Board on the Problems of Underground Tank Leaks in the Los Angeles Region** ,1983 **Cryogenic Technology** ,1968 **Ulrich's Update** ,1989

Publications, Programs & Services American Petroleum Institute, 2005 *Ulrich's International Periodicals Directory*, 1998 **Dynamic Modeling of Inbreathing Requirements for Low-pressure Storage Tanks** Dona Doureid Abou-Chakra, 2016 Fixed roof storage tanks are known to have a weak resistance to slight vacuum or slight pressure. Typically the minimum design vacuum is 0.036 psig and the maximum design pressure is 15 psig according to API 620 12th Edition 2013. Because these storage tanks have very thin shelled walls a slight vacuum can cause tank distortion and failure. Upon a sudden change in weather conditions such as a rainstorm occurring suddenly atmospheric storage tanks experience thermal inbreathing of ambient air into the tank. If air does not enter rapidly a pressure drop occurs inside the tank that can lead to tank wall failure by implosion due to negative pressure. Therefore relief devices must be sized properly based on the maximum inbreathing rate to provide safe venting of the tank. This study aims at calculating the maximum thermal inbreathing rate by performing dynamic simulations for different tanks using iMosaic's SuperChems Expert™ software. The first objective of this research was comparing the detailed SuperChems Expert™ single phase and two phase wall dynamics model to existing large scale test data and models. The results were successfully reproduced using this software with error margins between 5%. Previous to this work the software had not been evaluated for this important modeling. The second objective was to compare results from the SuperChems based model against API 2000 7th Edition 2014 which is the current standard used for venting atmospheric and low pressure storage tanks. This work found under a number of scenarios that API 2000 relief equations are considered conservative for non condensable gas services where the relief device may be oversized by up to 60%. However API 2000 modes fail to predict appropriate relief sizing for tanks storing condensable vapors such as methanol and wide boiling point mixtures such as gasoline ethanol. The relief device capacity can be underestimated by as much as 270% using API 2000. This work recommends adjusting the free convection heat transfer coefficients according to the vapor type to ensure adequate relief sizing for safe venting. The third and final objective of this research was to assess the impact of the solar radiation. Solar radiation varies with the geographical location of the tank and impacts the thermal inbreathing and out breathing. The two locations chosen for this study were Montreal Canada and Jubail City Saudi Arabia. Examined were three types of colors for external wall covering with different values of emissivity. Colors examined were white aluminum bronze and black. Rainstorms were simulated at the time of maximum solar flux i.e. highest tank wall temperature to create the worst case scenario and thus the maximum inbreathing rate. Preliminary results for dry air showed that a 600 m³ tank in Saudi Arabia experiences 10% higher inbreathing and 8% higher out breathing as compared to a tank located in Canada. API 2000 relief calculations were adequate in this case. However it should be noted that the comparison is for tanks filled with non condensable dry air only. Future work in this objective is recommended for tanks containing condensable vapors and verification of the maximum inbreathing rates determined at the two locations.

Integration and comp, 1959 *The Commercial and Financial Chronicle*, 1911

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