

**Public Input No. 5-NFPA 30-2015 [Section No. 2.3]****2.3 Other Publications.****2.3.1 API Publications.**

American Petroleum Institute, 1220 L Street, NW, Washington, DC 20005-4070.

API Specification- API **SPEC** 12B, *Bolted Tanks for Storage of Production Liquids*, 15th- **16th edition**, 2008 **2014** .

API Specification- API **SPEC** 12D, *Field Welded Tanks for Storage of Production Liquids*, 11th edition, 2008.

API Specification- API **SPEC** 12F, *Shop Welded Tanks for Storage of Production Liquids*, 12th edition, 2008.

API 620, *Recommended Rules for the* API **STD** 620, *Design and Construction of Large, Welded, Low-Pressure Storage Tanks*, 11th- **12th edition** , Addendum 2, 2010 - **2013**, Addendum **1** , **2014** .

API Standard- **STD** 650, *Welded Steel Tanks for Oil Storage*, 11th- **12th edition**, Addendum 2, 2009 **2013**, **Addendum 1** , **2014** .

API Standard- API **STD** 653, *Tank Inspection, Repair, Alteration, and Reconstruction*, 4th- **5th edition**, 2012 **2014** .

API Standard- API **STD** 2000, *Venting Atmospheric and Low-Pressure Storage Tanks*, 5th- **7th edition**, 1998 **2014** .

API **STD** 2350, *Overfill Protection for Storage Tanks in Petroleum Facilities*, 4th edition, 2012.

2.3.2 ASME Publications.

American Society of Mechanical Engineers **ASME International** , Two Park Avenue, New York, NY 10016-5990.

ASME *Boiler and Pressure Vessel Code*, 2010 - **2015** .

ASME B31.**3** , *Code for Process Piping*,- 2012 - **2014** .

ASME *Code for Unfired Pressure Vessels*,- 2010 - **2015** .

2.3.3 ASTM Publications.

ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959.

ASTM A-395 **A395** /A395M,, *Standard Specification for Ferritic Ductile Iron Pressure-Retaining Castings for Use at Elevated Temperatures*, 1999- (reaffirmed 2009) , **Reapproved 2014** .

ASTM D-5 **D5** /D5M, *Standard Test Method for Penetration of Bituminous Materials*, 2013.

ASTM D-56 **D56** , *Standard Test Method for Flash Point by Tag Closed Cup Tester*, 2005- (reaffirmed - , **Reapproved 2010**) .

ASTM D-86 **D86** , *Standard Test Method for Distillation of Petroleum Products at Atmospheric Pressure*, 2012.

ASTM D-92 **D92** , *Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester*, 2012b.

ASTM D-93 **D93** , *Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester*, 2012 - **2014 e1** .

ASTM D-323 **D323** , *Standard Test Method for Vapor Pressure of Petroleum Products (Reid Method)*, 2008, **Reapproved 2014** .

ASTM D-3278 **D3278** , *Standard Test Methods for Flash Point of Liquids by Small Scale Closed-Cup Apparatus*, 1996- (reaffirmed - , **Reapproved 2011**) .

ASTM D-3828 **D3828** , *Standard Test Methods for Flash Point by Small Scale Closed Cup Tester*, 2012a.

ASTM D-4359 **D4359** , *Standard Test for Determining Whether a Material is a Liquid or a Solid*, 1990- (reaffirmed - , **Reapproved 2012**) .

ASTM E-119 **E119** , *Standard Test Methods for Fire Tests of Building Construction and Materials*, 2012a - **2014** .

ASTM F-852 **F852** , *Standard Specification for Portable Gasoline Containers for Consumer Use*, 2008.

ASTM F-976 **F976** , *Specification for Portable Kerosine and Diesel Containers for Consumer Use*, 2008.

2.3.4 CSA America Publications.

Canadian Standards Association, 5060 ~~Spectrum Way, Mississauga~~ **178 Rexdale Blvd, Toronto, ON, L4W 5N6 M9W 1R3**, Canada.

CSA B51, *Boiler, Pressure Vessel and Pressure Piping Code*, 2009 **2014, Update 1, 2014**.

2.3.5 FM Publications.

FM Global, 4304 ~~Atwood~~ **270 Central Avenue**, P.O. Box 7500, Johnston, RI 02919.

Approval Standard for Safety Intermediate Bulk Containers, Class Number 6020, December 2010.

FM Approval Standard for 6083, Plastic Plugs for Steel Drums, - Class Number 6083, October 2006.

2.3.6 NMFTA Publications.

National Motor Freight Traffic Association, 1001 North Fairfax Street, Suite 600, Alexandria, VA 22314.

National Motor Freight Classification (NMFC), 2012.

2.3.7 NRFC Publications.

National Railroad Freight Committee, 222 South Riverside Plaza, Chicago, IL 60606-5945.

Uniform Freight Classification (UFC), 2005.

2.3.8 STI/SPFA Publications.

Steel Tank Institute, ~~570 Oakwood Road~~ **/Steel Plate Fabricators Association, 944 Donata Ct.**, Lake Zurich, IL 60047.

STI SP001, *Standard for the Inspection of Aboveground Storage Tanks*, 5th edition, 2011.

2.3.9 UL Publications.

Underwriters Laboratories Inc., 333 Pfingsten Road, Northbrook, IL 60062-2096.

~~ANSI/~~ UL 30, *Standard for Metal Safety Cans*, 1995, Revised 2009 **2014**.

UL 58, *Standard for Steel Underground Tanks for Flammable and Combustible Liquids*, 1996, Revised 1998.

~~ANSI/~~ UL 80, *Standard for Steel Tanks for Oil -Burner Fuels and Other Combustible Liquids*, 2007, Revised 2009 **2014**.

~~ANSI/~~ UL 142, *Standard for Steel Aboveground Tanks for Flammable and Combustible Liquids*, 2006, Revised 2010 **2014**.

UL 971, *Standard for Nonmetallic Underground Piping for Flammable Liquids*, 1995, Revised 2006.

~~ANSI/~~ UL 499, *Electric Heating Appliances*, 2008 **2014**.

~~ANSI/~~ UL 1313, *Standard for Nonmetallic Safety Cans for Petroleum Products*, 1993, Revised 2007 **2012**.

~~ANSI/~~ UL 1316, *Standard for Glass-Fiber Reinforced Plastic Underground Storage Tanks for Petroleum Products, Alcohols, and Alcohol-Gasoline Mixtures*, 2006.

~~ANSI/~~ UL 1746, *Standard for External Corrosion Protection Systems for Steel Underground Storage Tanks*, 2007, **Revised 2014**.

UL 2080, *Standard for Fire Resistant Tanks for Flammable and Combustible Liquids*, 2000.

~~ANSI/~~ UL 2085, *Standard for Protected Aboveground Tanks for Flammable and Combustible Liquids*, 1997, Revised 2010.

~~ANSI/~~ UL 2208, *Standard for Solvent Distillation Units*, 2005, Revised 2011.

~~ANSI/~~ UL 2245, *Standard for Below-Grade Vaults for Flammable Liquid Storage Tanks*, 2006.

UL 2368, *Standard for Fire Exposure Testing of Intermediate Bulk Containers for Flammable and Combustible Liquids*, 2012, **Revised 2014**.

2.3.10 UN Publications.

United Nations, Headquarters, New York, NY 10017.

Recommendations on the Transport of Dangerous Goods, 17th- **18th revised edition**, 2011 **2014**.

2.3.11 U.S. Government Publications.

U.S. Government Printing- Government **Publishing** Office, Washington, DC 20402.

Title 33, Code of Federal Regulations, "Navigation and Navigable Waters," Parts 154, 155, and 156.

Title 46, Code of Federal Regulations, "Shipping," Parts 30, 32, 35, and 39.

Title 49, Code of Federal Regulations, "Transportation," Parts 100–199.

2.3.12 Other Publications.

Merriam-Webster's Collegiate Dictionary, 11th edition, Merriam-Webster, Inc., Springfield, MA, 2003.

Statement of Problem and Substantiation for Public Input

Referenced current SDO names, addresses, standard names, and years.

Related Public Inputs for This Document

<u>Related Input</u>	<u>Relationship</u>
Public Input No. 6-NFPA 30-2015 [Global Input]	
Public Input No. 33-NFPA 30-2015 [Section No. I.1.2]	

Submitter Information Verification

Submitter Full Name: Aaron Adamczyk

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Submittal Date: Fri Feb 06 00:41:54 EST 2015

Committee Statement

Resolution: FR-19-NFPA 30-2015

Statement: Referenced current SDO names, addresses, standard names, and years.



Public Input No. 38-NFPA 30-2015 [Section No. 2.3.1]

2.3.1 API Publications.

American Petroleum Institute, 1220 L Street, NW, Washington, DC 20005-4070.

API Specification 12B, *Bolted Tanks for Storage of Production Liquids*, ~~15th edition, 2008~~- 16th Edition, 2014

API Specification 12D, *Field Welded Tanks for Storage of Production Liquids*, 11th edition, 2008.

API Specification 12F, *Shop Welded Tanks for Storage of Production Liquids*, 12th edition, 2008.

API Specification 12P, Fiberglass Reinforced Plastic Tanks, 3rd Edition, 2008

API Standard 620, *Recommended Rules for the Design and Construction of Large, Welded, Low-Pressure Storage Tanks*, ~~11th edition, Addendum 2, 2010~~- 12th Edition, 2013

API Standard 650, *Welded Steel Tanks for Oil Storage*, ~~11th edition, Addendum 2, 2009~~- 12th Edition, 2013

API Standard 653, *Tank Inspection, Repair, Alteration, and Reconstruction*, 5th edition, 2014

API Recommended Practice 1604, *Closure of Underground Petroleum Storage Tanks*, ~~4th edition, 2012~~- Reaffirmed 2001

API Standard 2000, *Venting Atmospheric and Low-Pressure Storage Tanks*, ~~5th edition~~ 7th Edition , ~~1998~~ 2014 .

API Standard 2350, *Overfill Protection for Storage Tanks in Petroleum Facilities*, 4th edition, 2012.

Statement of Problem and Substantiation for Public Input

update referenced documents to latest editions. adds new documents proposed for inclusion by reference

Submitter Information Verification

Submitter Full Name: RICHARD KRAUS

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Submission Date: Mon Jun 22 09:44:38 EDT 2015

Committee Statement

Resolution: FR-19-NFPA 30-2015

Statement: Referenced current SDO names, addresses, standard names, and years.



Public Input No. 81-NFPA 30-2015 [Section No. 2.3.3]

2.3.3 ASTM Publications.

ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959.

ASTM A 395/A395M,, *Standard Specification for Ferritic Ductile Iron Pressure-Retaining Castings for Use at Elevated Temperatures*, 1999 (reaffirmed 2009).

ASTM D 5/D5M, *Standard Test Method for Penetration of Bituminous Materials*, 2013.

ASTM D 56, *Standard Test Method for Flash Point by Tag Closed Cup Tester*, 2005 (reaffirmed 2010).

ASTM D 86, *Standard Test Method for Distillation of Petroleum Products at Atmospheric Pressure*, 2012.

ASTM D 92, *Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester*, 2012b.

ASTM D 93, *Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester*, 2012.

ASTM D 323, *Standard Test Method for Vapor Pressure of Petroleum Products (Reid Method)*, 2008.

ASTM D 3278, *Standard Test Methods for Flash Point of Liquids by Small Scale Closed-Cup Apparatus*, 1996 (reaffirmed 2011).

ASTM D 3828, *Standard Test Methods for Flash Point by Small Scale Closed Cup Tester*, 2012a.

ASTM D 4359, *Standard Test for Determining Whether a Material is a Liquid or a Solid*, 1990 (reaffirmed 2012).

ASTM E 119, *Standard Test Methods for Fire Tests of Building Construction and Materials*, 2012a 2014 .

ASTM F 852, *Standard Specification for Portable Gasoline Containers for Consumer Use*, 2008.

ASTM F 976, *Specification for Portable Kerosine and Diesel Containers for Consumer Use*, 2008.

Statement of Problem and Substantiation for Public Input

date update

Submitter Information Verification

Submitter Full Name: MARCELO HIRSCHLER

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Submittal Date: Thu Jul 02 14:29:31 EDT 2015

Committee Statement

Resolution: [FR-19-NFPA 30-2015](#)

Statement: Referenced current SDO names, addresses, standard names, and years.

**Public Input No. 78-NFPA 30-2015 [Section No. 2.3.9]****2.3.9** UL Publications.

Underwriters Laboratories Inc., 333 Pfingsten Road, Northbrook, IL 60062-2096.

ANSI/UL 30, *Standard for Metal Safety Cans*, 1995, Revised 2009 2014 .

UL 58, *Standard for Steel Underground Tanks for Flammable and Combustible Liquids*, 1996, Revised 1998 2008 .

ANSI/UL 80, *Standard for Steel Tanks for Oil -Burner Fuels and Other Combustible Liquids*, 2007, Revised 2009 2014 .

ANSI/UL 142, *Standard for Steel Aboveground Tanks for Flammable and Combustible Liquids*, 2006, Revised 2010 2014 .

UL 971, *Standard for Nonmetallic Underground Piping for Flammable Liquids*, 1995, Revised 2006.

ANSI/UL 499, *Electric Heating Appliances*, 2008 2014 .

ANSI/UL 1313, *Standard for Nonmetallic Safety Cans for Petroleum Products*, 1993, Revised 2007 2012 .

ANSI/UL 1316, *Standard for Glass-Fiber Reinforced Plastic Underground Storage Tanks for Petroleum Products, Alcohols, and Alcohol-Gasoline Mixtures*, 2006.

ANSI/UL 1746, *Standard for External Corrosion Protection Systems for Steel Underground Storage Tanks*, 2007, Revised 2014

UL 2080, *Standard for Fire Resistant Tanks for Flammable and Combustible Liquids*, 2000.

ANSI/UL 2085, *Standard for Protected Aboveground Tanks for Flammable and Combustible Liquids*, 1997, Revised 2010.

ANSI/UL 2208, *Standard for Solvent Distillation Units*, 2005, Revised 2011.

ANSI/UL 2245, *Standard for Below-Grade Vaults for Flammable Liquid Storage Tanks*, 2006.

UL 2368, *Standard for Fire Exposure Testing of Intermediate Bulk Containers for Flammable and Combustible Liquids*, 2012 2014 .

UL 2152 Outline of Investigation for Special Purpose Nonmetallic Containers & Tanks for Specific Combustible or Noncombustible Liquids, 2015.

Statement of Problem and Substantiation for Public Input

The proposed changes reflect updates to new editions of UL Standards
New reference to UL 2152 Outline of Investigation that includes construction and performance requirements for nonmetallic tanks for the storage of new and waste cooking oil. UL 2152 is being referenced in revisions to Section 19.7.2.2.2

Submitter Information Verification

Submitter Full Name: RONALD FARR

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Submittal Date: Thu Jul 02 13:26:21 EDT 2015

Committee Statement

Resolution: FR-19-NFPA 30-2015

Statement: Referenced current SDO names, addresses, standard names, and years.



Public Input No. 84-NFPA 30-2015 [Section No. 2.3.9]

2.3.9 UL Publications.

Underwriters Laboratories Inc., 333 Pfingsten Road, Northbrook, IL 60062-2096.

ANSI/UL 30, *Standard for Metal Safety Cans*, 1995, Revised 2009.

UL 58, *Standard for Steel Underground Tanks for Flammable and Combustible Liquids*, 1996, Revised 1998.

ANSI/UL 80, *Standard for Steel Tanks for Oil -Burner Fuels and Other Combustible Liquids*, 2007, Revised 2009.

ANSI/UL 142, *Standard for Steel Aboveground Tanks for Flammable and Combustible Liquids*, 2006, Revised 2010.

UL 971, *Standard for Nonmetallic Underground Piping for Flammable Liquids*, 1995, Revised 2006.

UL 971A, *Outline of Investigation for Metallic Underground Fuel Pipe*, 2006.

ANSI/UL 499, *Electric Heating Appliances*, 2008.

ANSI/UL 1275 *Standard for Safety for Flammable Liquid Storage Cabinets*, 2014

ANSI/UL 1313, *Standard for Nonmetallic Safety Cans for Petroleum Products*, 1993, Revised 2007.

ANSI/UL 1316, *Standard for Glass-Fiber Reinforced Plastic Underground Storage Tanks for Petroleum Products, Alcohols, and Alcohol-Gasoline Mixtures*, 2006.

ANSI/UL 1746, *Standard for External Corrosion Protection Systems for Steel Underground Storage Tanks*, 2007.

UL 2080, *Standard for Fire Resistant Tanks for Flammable and Combustible Liquids*, 2000.

ANSI/UL 2085, *Standard for Protected Aboveground Tanks for Flammable and Combustible Liquids*, 1997, Revised 2010.

ANSI/UL 2208, *Standard for Solvent Distillation Units*, 2005, Revised 2011.

ANSI/UL 2245, *Standard for Below-Grade Vaults for Flammable Liquid Storage Tanks*, 2006.

UL 2368, *Standard for Fire Exposure Testing of Intermediate Bulk Containers for Flammable and Combustible Liquids*, 2012.

Statement of Problem and Substantiation for Public Input

This introduces UL 971A, which is used to investigate and list metallic and composite underground piping. A separate proposal to section 27.4.6.2 adopts this standard by reference. It also introduces UL 1275 which is being added to section 9.5.3

Related Public Inputs for This Document

<u>Related Input</u>	<u>Relationship</u>
<u>Public Input No. 85-NFPA 30-2015 [Section No. 27.4.6.2]</u>	
<u>Public Input No. 98-NFPA 30-2015 [Section No. 9.5.3]</u>	

Submitter Information Verification

Submitter Full Name: HOWARD HOPPER
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Submission Date: Thu Jul 02 16:02:02 EDT 2015

Committee Statement

Resolution: [FR-19-NFPA 30-2015](#)

Statement: Referenced current SDO names, addresses, standard names, and years.



Public Input No. 75-NFPA 30-2015 [New Section after 3.3]

General Definition: Protected Storage

Protected Storage: Storage installed after January 1, 1997, that is protected in accordance with Chapter 16 or through an alternate means of protection that has been approved by the authority having jurisdiction (See 16.3.5 and Section 16.9). This storage classification designates a fire risk that is managed to provide fire control and limit the extent of fire size at or below the design area of the automatic fire protection system..

General Definition: Unprotected Storage

Unprotected Storage: Any storage configuration that does not meet the definition of protected storage. This storage classification implies that should a fire occur, the total contents of the fire area may become involved in a fire, regardless of the fire protection features provided.

Statement of Problem and Substantiation for Public Input

Currently, the definition for Protected Storage and Unprotected Storage is inconsistently listed in general requirements of Sections 9.3 and 12.3.4, while being listed in the definition section for Section 16.2.2. In addition, these terms are not formally included in the definitions of Chapter 3. The existing definition of these terms relies solely on a date of installation and conformance to protection requirements (protected storage shall mean storage installed after January 1, 1997 that is protected in accordance with Chapter 16. All other storage shall be considered to be unprotected storage), and does not provide the expected outcome of these strategic storage classifications during a fire, for the non-engineering user of NFPA 30.

This public input adds one sentence to each definition that attempts to provide the expected outcome in a fire scenario.

Submitter Information Verification

Submitter Full Name: MICHAEL SNYDER
Organization: Dow Corning
Street Address:
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Submittal Date: Tue Jun 30 22:01:49 EDT 2015

Committee Statement

Resolution: CI-1-NFPA 30-2015

Statement: The committee determined that the proposed criteria for describing protected vs. unprotected storage is not uniformly explained so that it should be included in chapter 3 as a general definition. Therefore, the committee is considering including the proposed definitions or an amended version thereof into Section 16.2. The committee solicits opinions or suggestions on this issue. The resolution of this issue will be tasked to the Task Group on Protection Criteria.



Public Input No. 40-NFPA 30-2015 [Section No. 6.6.1]

6.6.1 *

An approved means for prompt notification of fire or emergency to those within ~~the plant~~ the facility and to the available public or mutual aid fire department shall be provided.

Statement of Problem and Substantiation for Public Input

"plant" is too limiting. Facility is a broader term to use

Submitter Information Verification

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Submittal Date: Mon Jun 22 10:49:34 EDT 2015

Committee Statement

Resolution: FR-23-NFPA 30-2015

Statement: This FR addresses the intent of PI 40, but has been revised to more clearly identify those affected by a potential fire or other emergency as indicated in the emergency action plan.



Public Input No. 41-NFPA 30-2015 [Section No. 6.9.2]

6.9.2

Maintenance and operating practices shall be established and implemented to ~~control~~ control and prevent leakage and ~~prevent~~ spillage of flammable and combustible liquids.

Statement of Problem and Substantiation for Public Input

changes provides for BOTH prevention and control of leaks and spills

Submitter Information Verification

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Submittal Date: Mon Jun 22 10:55:47 EDT 2015

Committee Statement

Resolution: FR-3-NFPA 30-2015

Statement: This FR addresses PI 41 and PI 42. Changes have been made to address both prevention of leaks and spills as well as control of leaks and spills should they occur.



Public Input No. 42-NFPA 30-2015 [Section No. 6.9.2]

6.9.2

Maintenance and operating practices shall be established and implemented to prevent and control leakage and prevent spillage of flammable and combustible liquids.

Statement of Problem and Substantiation for Public Input

adds prevention to be in agreement with preceding section

Submitter Information Verification

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Submittal Date: Mon Jun 22 10:57:30 EDT 2015

Committee Statement

Resolution: FR-3-NFPA 30-2015

Statement: This FR addresses PI 41 and PI 42. Changes have been made to address both prevention of leaks and spills as well as control of leaks and spills should they occur.



Public Input No. 43-NFPA 30-2015 [Section No. 6.9.5]

6.9.5

Aisles established for movement of personnel or materials shall be kept clear of obstructions to permit orderly evacuation and ready access for manual fire-fighting activities.

Statement of Problem and Substantiation for Public Input

aisles could be for material movement as well as for personnel

Submitter Information Verification

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Submittal Date: Mon Jun 22 10:58:57 EDT 2015

Committee Statement

Resolution: This proposed change would not be appropriate because the aisles in a storage area are not intended to be part of the egress pathway. They are meant to separate one storage array from another.



Public Input No. 44-NFPA 30-2015 [Section No. 6.10.1.2]

6.10.1.2

These hazards include, but are not limited to, vulnerability to terrorist, arsonist or other malicious attacks.

Statement of Problem and Substantiation for Public Input

adds arson which is especially applicable toe liquid storage

Submitter Information Verification

Submitter Full Name: RICHARD KRAUS

Organization: APIPETROLEUM SAFETY CONSULTAN

Street Address:

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Submission Date: Mon Jun 22 11:00:46 EDT 2015

Committee Statement

Resolution: Arson would be considered a malicious act and is already addressed.



Public Input No. 32-NFPA 30-2015 [Section No. 7.1]

7.1 Scope.

This chapter shall apply to areas where Class I liquids are stored or handled and to areas where Class II or Class ~~III~~ IIIA liquids are stored or handled at or above their flash points.

Statement of Problem and Substantiation for Public Input

The current requirements in Section 7.1 conflict with information provided in NFPA 497 (2012), Sections 4.2.7.3 and 5.4.4.

NFPA 497 (2012) Section 4.2.7.3:

Class IIIB liquids seldom evolve enough vapors to form ignitable mixtures even when heated, and they are seldom ignited by properly installed and maintained general purpose electrical equipment. A Class IIIB liquid will cool below its flash point very quickly when released. Therefore, area classification is seldom needed and Class IIIB liquids are not included in Table 4.4.2.

NFPA 497 (2012) Section 5.4.4:

Experience indicates that Class IIIB liquids seldom evolve enough vapors to form ignitable mixtures even when heated, and are seldom ignited by properly installed and maintained general-purpose electrical equipment.

This input seeks to align the requirements and limit mandatory electrical classification for combustible liquids heated above their flashpoint to Class II and IIIA liquids.

Submitter Information Verification

Submitter Full Name: MICHAEL SNYDER

Organization: Dow Corning Corporation

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Submission Date: Fri Jun 05 17:42:49 EDT 2015

Committee Statement

Resolution: The proposed amendment would conflict with paragraphs 6.4.1.2, 17.3.6, 18.3, and with the provisions of NFPA 70, National Electrical Code.



Public Input No. 65-NFPA 30-2015 [Section No. G.1]

G.1 General.

The process used to assess the level of security of a facility is generally referred to as security vulnerability assessment (SVA). The following published guidelines are available to assist the owner and management of a facility to identify, evaluate, and control security hazards:

- (1) NFPA 730, *Guide for Premises Security*
- (2) American Institute of Chemical Engineers–Center for Chemical Process Safety (CCPS), *Guidelines for Analyzing and Managing the Security Vulnerabilities of Fixed Chemical Sites*
- (3) API *Security Guidelines for the Petroleum Industry*
- (4) API RP 70, *Security for Offshore Oil and Natural Gas Operations*
- (5) API RP 701, *Security for Worldwide Offshore Oil and Natural Gas Operations*
- (6) API Standard 1164, *Pipeline SCADA Security*
- (7) API/National Petrochemical and Refiners Association, *Security Vulnerability Assessment Methodology*
- (8) American Chemistry Council (ACC), *Site Security Guidelines for the U.S. Chemical Industry*
- (9) ACC *Implementation Resource Guide for Responsible Care Security Code of Management Practices: Value Chain Activities*
- (10) ACC *Transportation Security Guidelines for the U.S. Chemical Industry*
- (11) DOT, Office of Pipeline Safety, Pipeline Security Information Circular, Information of Concern to Pipeline Security Personnel, *Security Guidance for Natural Gas, and Hazardous Liquid Pipelines and Liquefied Natural Gas Facilities*, September 5, 2002
- (12) Sandia National Laboratories “Vulnerability Assessment Methodology for Chemical Facilities (VAM-CF)”
- (13) U.S. Coast Guard NVIC 11-02 (and other NVICs)

In some cases, a terrorist attack or similar worst-case event will create response complications, such as interruptions to communication between and among the facility fire brigade or response team; facility management, and response personnel and outside agencies; damage to response equipment, or loss of needed personnel. Existing emergency response plans should be updated to address and mitigate such identified potential disruptions to an effective response. Periodic table-top and full-scale drills are strongly recommended to provide a means for proper training and identification of plan weaknesses to be addressed.

Statement of Problem and Substantiation for Public Input

correct title

Submitter Information Verification

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Submission Date: Mon Jun 22 15:49:27 EDT 2015

Committee Statement

Resolution: [FR-4-NFPA 30-2015](#)

Statement: Title of reference document has been corrected.



Public Input No. 33-NFPA 30-2015 [Section No. I.1.2]

I.1.2 Other Publications.

I.1.2.1 ACC Publications.

American Chemistry Council, 700 Second Street, N.E., Washington DC 20002.

Implementation Resource Guide for Responsible Care Security Code of Management Practices: Value Chain Activities, 2002.

Site Security Guidelines for the U.S. Chemical Industry, 2001.

Transportation Security Guidelines for the U.S. Chemical Industry, 2001.

I.1.2.2 AIChE Publications.

American Institute of Chemical Engineers, 3 Park Avenue, **120 Wall Street, FL 23, New York, NY**
40046 **10005-4020**.

Fisher, H.G., and Forrest, H.S., "Protection of Storage Tanks from Two-Phase Flow Due to Fire Exposure," *Process Safety Progress*, Vol. 14, July 1995, pp. 183–199.

Guidelines for Analyzing and Managing the Security Vulnerabilities of Fixed Chemical Sites, 2003.

Guidelines for Chemical Process Quantitative Risk Analysis, 2nd edition, 1999.

*Guidelines for Evaluating Process Plant Buildings for External Explosions and Fires **and Toxic Releases***, 1996
2012.

Guidelines for Pressure Relief and Effluent Handling Systems, 1998.

Guidelines for Vapor Cloud Explosion, Pressure Vessel Burst, BLEVE and Flash Fire Hazards, 2nd edition, 2011.

Houser, J., et. al, "Vent Sizing for Fire Considerations: External Fire Duration, Jacketed Vessels, and Heat Flux Variations Owing to Fuel Consumption," *Journal of Loss Prevention in the Process Industries*, Vol. 14 No. 5, September 2001, pp. 403–412.

Nugent, D.P., Freeman, J.L., and Oliszewicz, M.P., *Guidelines for Safe Warehousing of Chemicals*, 1998.

I.1.2.3 ANSI Publications.

American National Standards Institute, Inc., 25 West 43rd Street, 4th Floor, New York, NY 10036.

ANSI **Z400.1/ Z129.1, Hazardous Industrial Chemicals—Precautionary Labeling, 2005 Workplace Chemicals - Hazard Evaluation and Safety Data Sheet and Precautionary Labelling Preparation, 2010**.

ANSI Z535.2, *Environmental and Facility Safety Signs*, 2011.

I.1.2.4 API Publications.

American Petroleum Institute, 1220 L Street, NW, Washington, DC 20005.

API RP 70, *Security for Offshore Oil and Natural Gas Operations*, 1st edition, 2003, reaffirmed 2010 .

API RP 70I, *Security for Worldwide Offshore Oil and Natural Gas Operations*, 2004, reaffirmed 2012 .

API RP _ 12R1, *Setting, Maintenance, Inspection, Operation, and Repair of Tanks in Production Service*, 1997, Reaffirmed 2008 .

API RP 500, *Recommended Practice for Classification of Locations for Electrical Installations at Petroleum Facilities Classified as Class I, Division 1 and Division 2, Revision-2 Third Edition , 1998 2012 .*

API RP 505, *Recommended Practice for Classification of Locations for Electrical Installations at Petroleum Facilities Classified as Class I, Zone 0, ~~Zone 1,~~ and Zone 2, 2002 1997, reaffirmed 2012 .*

~~API-620~~ API STD _ 620 , *Recommended Rules for the Design and Construction of Large, Welded, Low-Pressure Storage Tanks*, 11th edition, 2012.

~~API Standard-~~ API STD _ 650, *Welded Steel Tanks for Oil Storage*, 11th edition, 2011.

API 653 STD _ 653 , *Tank Inspection, Repair, Alteration, and Reconstruction*, 4th edition, 2012.

API RP 752, *Management of Hazards Associated with Location of Process Plant Buildings*, 3rd edition, 2009.

API RP 753, *Management of Hazards Associated with Location of Process Plant Portable Buildings*, 1st edition, 2007- (R2012) , reaffirmed 2012 .

~~API Standard-~~ API STD _ 1164, *SCADA Security, Second Edition - 2* , 2009.

API 1501, *Filtration and Dehydration of Aviation Fuels*, 1st edition, 1965. (Superseded by EI 1529)

API RP _ 1604, *Removal and Disposal of Used Underground Petroleum Storage Tanks*, 3rd edition, reaffirmed 2004 2010 .

API RP 1615, *Installation of Underground Petroleum Storage Systems*, 6th edition, 2011.

API RP 1621, *Bulk Liquid Stock Control at Retail Outlets, 2004 1993, reaffirmed 2012 .*

API STD _ 1631, *Interior Lining of Underground Storage Tanks*, 5th edition, reaffirmed 2010.

API RP 1632, *Cathodic Protection of Underground Petroleum Storage Tanks and Piping Systems*, 3rd edition, reaffirmed 2010.

API RP _ 2003, *Protection Against Ignition Arising Out of Static, Lightning, and Stray Currents*, 7th edition, 2008.

API STD _ 2015, *Cleaning Petroleum Storage Tanks, 6th 7th edition, reaffirmed 2006 2014 .*

API RP _ 2016, *Guidelines and Procedures for Entering and Cleaning Petroleum Storage Tanks*, 1st edition, reaffirmed 2006.

API RP _ 2214, *Spark Ignition Properties of Hand Tools*, 4th edition, 2004. (Withdrawn)

API STD _ 2217A, *Guidelines for Work in Inert Confined Spaces in the Petroleum Industry*, 4th edition, 2009.

API RP _ 2218, *Fireproofing Practices in Petroleum and Petrochemical Processing Plants, 2nd 3rd edition, 1999 2013 .*

API RP _ 2219, *Safe Operating Guidelines for Vacuum Trucks in Petroleum Service*, 3rd edition, 2005, reaffirmed 2012 .

API STD _ 2350, *Overfill Protection for Storage Tanks in Petroleum Facilities*, 4th edition, 2012.

API Security Guidelines for the Petroleum Industry, 3rd edition, 2005.

~~API Standard-~~ API STD _ 2610, *Design, Construction, Operation, Maintenance, and Inspection of Terminal and Tank Facilities*, 2nd edition, 2005, reaffirmed 2010 .

"An Engineering Analysis of the Effects of Oxygenated Fuels on Marketing Vapor Recovery Equipment," September 1990.

API PUBL _ 4589, *Fugitive Hydrocarbon Emissions from Petroleum Production Operations*, 1993.

API/National Petrochemical and Refiners Association, *Security Vulnerability Assessment Methodology*, 2nd edition, 2004.

I.1.2.5 Association of Canadian Distillers Publications.

Association of Canadian Distillers, Suite 518, 90 Rue Sparks, Ottawa, Ontario, K1P 5B4, Canada.

"Fire Tests of Distilled Spirits Storage Tanks," Client Report CR-5727.1, 2001.

I.1.2.6 ASTM Publications.

ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959.

ASTM C-1055 C1055, *Standard Guide for Heated System Surface Conditions that Produce Contact Burn Injuries*, 2003- (Reaffirmed 2009), **reapproved 2014**.

ASTM D-4206 D4206, *Standard Test Method for Sustained Burning of Liquid Mixtures Using the Small Scale Open-Cup Apparatus*, 1996- (reaffirmed 2007), **reapproved 2013**.

ASTM D-4207 D4207, *Standard Test Method for Sustained Burning of Low Viscosity Liquid Mixtures by the Wick Test*, 1991. (**Withdrawn**)

ASTM D-4956 D4956, *Standard Specification for Retroreflective Sheeting for Traffic Control*, 2011a **2013**.

ASTM D-6469 D6469, *Standard Guide for Microbial Contamination in Fuels and Fuel Systems*, 2012 **2014**.

ASTM E-119 E119, *Standard Test Methods for Fire Tests of Building Construction and Materials*, 2012a **2014**.

ASTM E-502 E502, *Standard Test Method for Selection and Use of ASTM Standards for the Determination of Flash Point of Chemicals by Closed Cup Methods*, 2007e1, **reapproved 2013**.

ASTM Manual on Flash Point Standards and Their Use, 1992.

I.1.2.7 ISO Publications.

International Organization for Standardization, -1, ch. de la Voie-Creuse, Case postale 56, CH-1211 Geneva 20, Switzerland **ISO Central Secretariat, BIBC II, 8, Chemin de Blandonnet, CP 401, 1214 Vernier, Geneva, Switzerland**.

ISO 13732-1, *Ergonomics of the Thermal Environment -- Methods for the Assessment of Human Responses to Contact with Surfaces Part 1: Hot Surfaces*, 2006- edition.

I.1.2.8 NACE Publications.

National Association of Corrosion Engineers **NACE International**, 1440 South Creek Drive, Houston, TX 77084.

NACE RP- SP 0169, *Recommended Practice, Control of External Corrosion on Underground or Submerged Metallic Piping Systems*, 1996 **2013**. (**Supersedes NACE RP- 0169**)

NACE SP 0285, *Recommended Practice, External Corrosion Control of Underground Storage Tank Systems by Cathodic Protection*, 2002- **2011**. (**Supersedes NACE RP-0285**)

I.1.2.9 NEIWPCC Publications.

New England Interstate Water Pollution Control Commission, 85 Merrimac Street, Boston, MA 02114.

Tank Closure Without Tears: An Inspector's Safety Guide, May 1988.

I.1.2.10 NIOSH Publications.

National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention, 1600 Clifton Road, Atlanta, GA 30333.

Criteria for Recommended Standard for Working in Confined Spaces, 1979.

NIOSH 87-113, *A Guide to Safety in Confined Spaces*, 1987.

I.1.2.11 NORA Publications.

National Oilheat Research Alliance, 600 Cameron Street, Suite 600, Alexandria, VA 22314.

Oilheat Technician's Manual, 2002.

I.1.2.12 Oil and Gas Journal Publications.

PennWell Publishing Co., 3050 Post Oak Boulevard, **1455 West Loop South, Suite #400**, Houston, TX 77056 **77027**.

"Module Ventilation Rates Quantified," W. E. Gale, December 23, 1985, p. 41.

I.1.2.13 PEI Publications.

Petroleum Equipment Institute, P.O. Box 2380, Tulsa, OK 74101-2380.

PEI RP100, *Recommended Practices for Installation of Underground Liquid Storage Systems*, 2011.

PEI RP200, *Recommended Practices for Installation of Aboveground Storage Systems for Motor Vehicle Fueling*, 2008 **2013**.

PEI RP600, *Recommended Practices for Overfill Prevention for Shop-Fabricated Aboveground Tanks*, 2012.

I.1.2.14 SFPE Publications.

Society of Fire Protection Engineers, 7345 Wisconsin Avenue **9711 Washington Blvd , Suite 1225-W 380 , Bethesda Gaithersburg , MD 20814 20878 .**

Directory of Fire Tests Involving Storage of Flammable and Combustible Liquids in Small Containers, 3rd edition, by David P. Nugent, Schirmer Engineering Corporation, 2006.

Engineering Guide: Assessing Flame Radiation to External Targets from Pool Fires, 1999.

Engineering Guide: Predicting 1st and 2nd Degree Skin Burns from Thermal Radiation, 2000.

Engineering Guide to Fire Exposures to Structural Elements, 2004.

Engineering Standard on Calculating Fire Exposures to Structures, 2010.

Handbook of Fire Protection Engineering, 2008.

I.1.2.15 STI/SPFA Publications.

Steel Tank Institute, 570 Oakwood Road **/Steel Plate Fabricators Association . , 944 Donata Ct. , Lake Zurich, IL 60047.**

SP001, *Standard for Inspection of Aboveground Storage Tanks*, 5th edition, 2011.

STI-P3, *Specification and Manual for External Corrosion Protection of Underground Steel Storage Tanks*, 2012 **2014 .**

STI R931, *Double-Wall AST- F921 Installation and Testing- Instructions* , 2012 **2014 .**

STI RP 892, *Recommended Practice for Corrosion Protection of Underground Piping Networks Associated with Liquid Storage and Dispensing Systems*, 2012.

STI RP R011, *Recommended Practice for Anchoring of Steel Underground Storage Tanks*, 2006.

STI, ACT-100[®], *Specification for External Corrosion Protection of FRP Composite Steel Underground Tanks*, F894, 1997 **2013, revised 2014 .**

Keeping Water Out of Your Storage System, 2004 **2006 .**

I.1.2.16 UL Publications.

Underwriters Laboratories Inc., 333 Pfingsten Road, Northbrook, IL 60062-2096.

ANSI/ UL 30, *Standard for Metal Safety Cans*, 1995, Revised 2009 **2014 .**

ANSI/ UL 142, *Standard for Steel Aboveground Tanks for Flammable and Combustible Liquids*, 2006, Revised 2010 **2014 .**

ANSI/ UL 263, *Standard for Fire Tests of Building Construction and Materials*, 2011, **revised 2015 .**

ANSI/ UL 1313, *Standard for Nonmetallic Safety Cans for Petroleum Products*, 2005, Revised 2007 **2012 .**

UL 1316, *Standard for Glass-Fiber-Reinforced Plastic Underground Storage Tanks for Petroleum Products, Alcohols, and Alcohol-Gasoline Mixtures*, 1994, Revised 2006.

ANSI/ UL 1709, *Standard for Rapid Rise Fire Tests of Protection Materials for Structural Steel*, 2005, Revised 2011.

ANSI/ UL 1746, *Standard for External Corrosion Protection Systems for Steel Underground Storage Tanks*, 2007, **revised 2014 .**

I.1.2.17 ULC Publications.

Underwriters Laboratories of Canada, 7 Underwriters Road, Scarborough **Toronto , Ontario - M1R 3B4 , Canada M1R 3A9 .**

CAN/ULC-S603.1, *Standard for External Corrosion Protection Systems for Steel Underground Tanks for Flammable and Combustible Liquids*, 2011.

I.1.2.18 UN Publications.

United Nations Publications, 2 United Nations Plaza, Room DC2-853, New York, NY 10017.

Recommendations on the Transport of Dangerous Goods,- 47th- 18th revised edition, 2011 2014 .

I.1.2.19 U.S. Government Publications.

U.S. Government Printing- Government **Publishing** Office, Washington, DC 20402.

DOT, Office of Pipeline Safety, Pipeline Security Information Circular, Information of Concern to Pipeline Security Personnel, *Security Guidance for Natural Gas, and Hazardous Liquid Pipelines and Liquefied Natural Gas Facilities*, September 5, 2002.

U.S. Coast Guard NVIC 11-02 and other NVICs

EPA Protocols for Generating Unit-Specific Emission Estimates for Equipment Leaks of VOC and HAP, 1987 (Document No. 87-222-124-10-02).

EPA/Radian Study, 1979.

Occupational Health & Safety Administration (OSHA) 2226, *Excavation & Trenching Operations*, 1990.

Title 21, Code of Federal Regulations, Part 800-898, "GMP for Medical Devices."

Title 29, Code of Federal Regulations, Part 1910.106, "Flammable and Combustible Liquids."

Title 29, Code of Federal Regulations, Part 1910.1200, "Hazard Communication."

Title 33, Code of Federal Regulations, Parts 154-156, "Navigation and Navigable Waterways."

Title 40, Code of Federal Regulations, Part 280, "Technical Standards and Requirements for Owners and Operators of Underground Storage Tanks."

Title 49, Code of Federal Regulations, Parts 100-199, "Hazardous Materials Transportation."

I.1.2.20 Other Publications.

Sandia National Laboratories, "Vulnerability Assessment Methodology for Chemical Facilities (VAM-CF)"

Statement of Problem and Substantiation for Public Input

Updated SDO names, addresses, standard names, numbers, and editions.

Related Public Inputs for This Document

<u>Related Input</u>	<u>Relationship</u>
Public Input No. 6-NFPA 30-2015 [Global Input]	
Public Input No. 5-NFPA 30-2015 [Section No. 2.3]	Updated SDO names, addresses, standard names, numbers, and editions.

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I.1.2.4 API Publications.

American Petroleum Institute, 1220 L Street, NW, Washington, DC 20005.

API RP 70, *Security for Offshore Oil and Natural Gas Operations*, 1st edition, 2003.

API RP 70I, *Security for Worldwide Offshore Oil and Natural Gas Operations*, 1st Edition, 2004.

API Specification 12R1, *Setting, Maintenance, Inspection, Operation, and Repair of Tanks in Production Service*, 2008.

API RP 500, *Recommended Practice for Classification of Locations for Electrical Installations at Petroleum Facilities Classified as Class I, Division 1 and Division 2*, ~~Revision-2~~ 3rd edition, ~~1998~~ 2012.

API RP 505, *Recommended Practice for Classification of Locations for Electrical Installations at Petroleum Facilities Classified as Class I, Zone 0, Zone 1, and Zone 2*, 2002.

API Standard 620, *Recommended Rules for the Design and Construction of Large, Welded, Low-Pressure Storage Tanks*, ~~41th-~~ 12th edition, ~~2012~~ 2013.

API Standard 650, *Welded Steel Tanks for Oil Storage*, ~~41th-~~ 12th edition, ~~2011~~ 2013.

API Standard 653, *Tank Inspection, Repair, Alteration, and Reconstruction*, ~~4th-~~ 5th edition, ~~2012~~ 2014.

API RP 752, *Management of Hazards Associated with Location of Process Plant Buildings*, 3rd edition, 2009.

API RP 753, *Management of Hazards Associated with Location of Process Plant Portable Buildings*, 1st edition, 2007 (R2012).

API Standard 1164, *Pipeline SCADA Security*, Edition 2, 2009.

API Bulletin 1501, *Filtration and Dehydration of Aviation Fuels*, ~~1st edition, 1965.~~ 4th edition (historical document)

API RP 1604, *Removal and Disposal Closure of Used Underground Petroleum Storage Tanks*, 3rd edition, reaffirmed 2001.

API RP 1615, *Installation of Underground Petroleum Storage Systems*, 6th edition, 2011.

API RP 1621, *Bulk Liquid Stock Control at Retail Outlets*, ~~2004~~ 5th Edition, ~~1993~~.

API RP 1631, *Interior Lining of Underground Storage Tanks*, 5th edition, reaffirmed 2010.

API RP 1632, *Cathodic Protection of Underground Petroleum Storage Tanks and Piping Systems*, 3rd edition, reaffirmed 2010 (historic document).

API Standard 2003, *Protection Against Ignition Arising Out of Static, Lightning, and Stray Currents*, 7th edition, 2008.

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API RP 2016, *Guidelines and Procedures for Entering and Cleaning Petroleum Storage Tanks*, 1st edition, reaffirmed 2006.

API Publication 2214, *Spark Ignition Properties of Hand Tools*, 4th edition, 2004. (not an active document)

API Standard 2217A, *Guidelines for Work in Inert Confined Spaces in the Petroleum Industry*, ~~4th-~~ 5th edition, ~~2009~~ 2015.

API Publication 2218, *Fireproofing Practices in Petroleum and Petrochemical Processing Plants*, ~~2nd-~~ 3rd edition, ~~1999~~ 2013.

API Publication 2219, *Safe Operating Guidelines for Vacuum Trucks in Petroleum Service*, 3rd edition, 2005.

API Standard 2350, *Overfill Protection for Storage Tanks in Petroleum Facilities*, 4th edition, 2012.

API *Security Guidelines for the Petroleum Industry*, 3rd edition, 2005.

API Standard 2610, *Design, Construction, Operation, Maintenance, and Inspection of Terminal and Tank Facilities*, 2nd edition, 2005.

API Publication, *"An Engineering Analysis of the Effects of Oxygenated Fuels on Marketing Vapor Recovery Equipment,"* September 1990.

API Publication 4589, *Fugitive Hydrocarbon Emissions from Petroleum Production Operations*, 1st Edition, 1993.

API/National Petrochemical and Refiners Association, *Security Vulnerability Assessment Methodology*, 2nd edition, 2004.

Statement of Problem and Substantiation for Public Input

update referenced documents

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I.1.2.6 ASTM Publications.

ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959.

ASTM C 1055, *Standard Guide for Heated System Surface Conditions that Produce Contact Burn Injuries*, 2003 (Reaffirmed 2009).

ASTM D 4206, *Standard Test Method for Sustained Burning of Liquid Mixtures Using the Small Scale Open-Cup Apparatus*, 1996 (reaffirmed 2007).

ASTM D 4207, *Standard Test Method for Sustained Burning of Low Viscosity Liquid Mixtures by the Wick Test*, 1991.

ASTM D 4956, *Standard Specification for Retroreflective Sheeting for Traffic Control*, 2011a.

ASTM D 6469, *Standard Guide for Microbial Contamination in Fuels and Fuel Systems*, 2012.

ASTM E 119, *Standard Test Methods for Fire Tests of Building Construction and Materials*, ~~2012a~~ 2014 .

ASTM E 502, *Standard Test Method for Selection and Use of ASTM Standards for the Determination of Flash Point of Chemicals by Closed Cup Methods*, 2007e1.

ASTM Manual on Flash Point Standards and Their Use, 1992.

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I.1.2.16 UL Publications.

Underwriters Laboratories Inc., 333 Pfingsten Road, Northbrook, IL 60062-2096.

ANSI/UL 30, *Standard for Metal Safety Cans*, 1995, Revised 2009 2014 .

ANSI/UL 142, *Standard for Steel Aboveground Tanks for Flammable and Combustible Liquids*, 2006, Revised 2010 2014 .

ANSI/UL 263, *Standard for Fire Tests of Building Construction and Materials*, 2011. Revised 2015

ANSI/UL 1313, *Standard for Nonmetallic Safety Cans for Petroleum Products*, 2005, Revised 2007 2012 .

UL 1316, *Standard for Glass-Fiber-Reinforced Plastic Underground Storage Tanks for Petroleum Products, Alcohols, and Alcohol-Gasoline Mixtures*, 1994, Revised 2006.

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ANSI/UL 1746, *Standard for External Corrosion Protection Systems for Steel Underground Storage Tanks*, 2007. Revised 2014

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The proposed changes reflect updated editions of UL Standards.

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