

1 TITLE 41: FIRE PROTECTION
2 CHAPTER I: OFFICE OF THE STATE FIRE MARSHAL

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4 PART 174
5 GENERAL REQUIREMENTS FOR UNDERGROUND STORAGE TANKS
6 AND THE STORAGE, TRANSPORTATION, SALE AND USE OF
7 PETROLEUM AND OTHER REGULATED SUBSTANCES

8
9 SUBPART A: DEFINITIONS

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11 Section
12 174.100 Definitions

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14 SUBPART B: INCORPORATION BY REFERENCE

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16 Section
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18 174.210 Incorporations by Reference

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23 Section
24 174.300 Storage, Handling and Use of Flammable and Combustible Liquids
25 174.310 Bulk Loading and Unloading for Railroad Tank Cars and Tank Vehicles
26 174.320 Locating Bulk Facilities Adjacent to a Motor Fuel Dispensing Facility; Dual
27 Purpose USTs
28 174.330 Heating Systems
29 174.340 Greasing Pits
30 174.350 Fire Extinguishers
31 174.360 Fireworks (Repealed)
32 174.370 General Requirement to Maintain All Equipment

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34 SUBPART D: PORTABLE AND VEHICULAR DISPENSING

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36 Section
37 174.400 Dispensing Requirements at Motor Fuel Dispensing Facilities
38 174.410 Portable Containers and Portable Fuel Tanks
39 174.420 Deliveries from Portable Fuel Tanks and Tank Vehicles Restricted
40 174.430 Auxiliary Fuel Tanks for Vehicles over a Certain Size
41 174.440 Dispensing or Delivery of Flammable or Combustible Motor Fuels from Tank
42 Vehicles
43 174.450 Requirements for Permit to Fuel Motor Vehicles from Tank Vehicles

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45 174.APPENDIX A Derivation Table (Repealed)

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47 AUTHORITY: Implementing the Gasoline Storage Act [430 ILCS 15] and authorized by
48 Section 2 of the Gasoline Storage Act [430 ILCS 15/2].

49
50 SOURCE: Adopted at 34 Ill. Reg. 13318, effective September 2, 2010; amended at 42 Ill. Reg.
51 10435, effective October 13, 2018; amended at 47 Ill. Reg. 6801, effective May 2, 2023;
52 amended at 48 Ill. Reg. _____, effective _____.

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54 SUBPART B: INCORPORATION BY REFERENCE

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56 **Section 174.210 Incorporations by Reference**

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58 If a UST was installed prior to adoption of these standards, the standard that shall apply to any
59 maintenance or repair shall be the standard cited in this Section unless otherwise specified in 41
60 Ill. Adm. Code 172, 174, 175, 176 and 177. If a UST or a component of the system is installed,
61 replaced or upgraded, the installation, replacement or upgrade shall comply with the standards
62 listed in this Section.

63
64 a) The following publications are incorporated by reference and apply to 41 Ill.
65 Adm. Code 172, 174, 175, 176, and 177:

66
67 Airlines for America (formerly, Air Transport Association (ATA)), 1275
68 Pennsylvania Avenue, NW, Suite 1300, Washington DC 20004. Website for
69 listing of publications: <https://publications.airlines.org.>:

70
71 "Airport Fuel Facility Operations and Maintenance Guidance Manual"
72 (2004 Edition).

73
74 American Petroleum Institute (API). Available from the American Petroleum
75 Institute, 200 Massachusetts Avenue NW, Suite 1100, Washington, DC 20001-
76 5571, (202) 682-8000:

77
78 API Recommended Practice 1604, "Closure of Underground Petroleum
79 Storage Tanks", Fourth Edition, 2021.

80
81 API Recommended Practice 1631, "Interior Lining and Periodic
82 Inspection of Underground Storage Tanks", Fifth Edition, 2001
83 (Reaffirmed 2020).

84
85 API Standard 2015, "Requirements for Safe Entry and Cleaning of
86 Petroleum Storage Tanks", Eighth Edition, 2018.

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API Recommended Practice 1626, "Storing and Handling Ethanol and Gasoline-Ethanol Blends at Distribution Terminals and Filling Stations", Second Edition, 2010 (Reaffirmed 2020).

American Society for Testing and Materials (ASTM). Available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken PA 19428-2959, (610) 832-9500:

ASTM F852/F852M-22 Standard Specification for Portable Gasoline, Kerosene, and Diesel Containers for Consumer Use (2022)

The ICC International Building Code. Available from ICC, 4051 W. Flossmoor Rd., Country Club Hills IL 60478, (708) 799-2300:

ICC International Building Code ([2024](#)~~2021~~).

Institute of International Banking Law & Practice, Inc. (Institute). Website: <https://iiblp.org/pages/isp-forms> ~~https://iiblp.org/isp-forms~~:

"International Standby Practices (ISP) 98 Form 11.1, Model Government Standby Form" (2014).

NACE International. Available from NACE International, 15835 Park Ten Place. Houston, Texas 77084, (281) 228-6200:

NACE Standard Practice SP0169, "Control of External Corrosion on Underground or Submerged Metallic Piping Systems" (2013 Edition).

NACE Standard Practice SP0285, "External Corrosion Control of Underground Storage Tank Systems by Cathodic Protection" (2021 Edition).

National Fire Protection Association (NFPA). Available from the National Fire Protection Association, 1 Batterymarch Park, Quincy MA 02169, (617) 770-3000 or (800) 344-3555:

NFPA 10, "Standard for Portable Fire Extinguishers" (2022).

NFPA 13, "Standard for the Installation of Sprinkler Systems" (2022).

NFPA 17, "Standard for Dry Chemical Extinguishing Systems" ([2024](#)~~2021~~).

130
131 NFPA 30, "Flammable and Combustible Liquids Code" (~~2024~~2021). Also
132 available from ANSI.

133
134 NFPA 30A, "Code for Motor Fuel Dispensing Facilities and Repair
135 Garages" (~~2024~~2021). Also available from ANSI.

136
137 NFPA 58, "Liquefied Petroleum Gas Code" (~~2024~~2020).

138
139 NFPA 70, "National Electrical Code" (~~2023~~2020). Also available from
140 ANSI.

141
142 NFPA 72, "National Fire Alarm and Signaling Code" (2022).

143
144 NFPA 101, "Life Safety Code" (2015). Also available from ANSI.

145
146 NFPA 385, "Standard for Tank Vehicles for Flammable and Combustible
147 Liquids" (2022). Also available from ANSI.

148
149 NFPA 407, "Standard for Aircraft Fuel Servicing" (2022).

150
151 National Leak Prevention Association (NLPA). Available from the National Leak
152 Prevention Association, 75-4 Main Street, Suite 300, Plymouth NH 03264, e-
153 mail: info@NLPA-online.org, website: <https://www.nlpa-online.org/>, (815) 301-
154 2785 (phone):

155
156 NLPA Standard 631 (Chapters A & B Only), "Entry, Cleaning, Interior
157 Inspection, Repair and Lining of Underground Storage Tanks" (Chapter
158 A) and "Future Internal Inspection Requirements for Lined Tanks"
159 (Chapter B), 2016 Revision.

160
161 National Work Group on Leak Detector Evaluations (NWGLDE), List of Leak
162 Detection Evaluations for Storage Tank Systems, Twenty-Fourth Edition (January
163 3, 2017), as subsequently modified by the ~~Thirtieth~~Twenty-Ninth Edition
164 (January ~~1831~~, ~~2023~~2022), available at: www.neiwpcc.org/nwglde
165 ~~www.nwglde.org~~.

166
167 Petroleum Equipment Institute (PEI). Available from the Petroleum Equipment
168 Institute, P.O. Box 2380, Tulsa OK 74101-2380, RP@pei.org, (918) 494-9696
169 (phone), (918) 491-9895 (fax):

170
171 PEI/RP 100-~~220~~, "Recommended Practices for Installation of
172 Underground Liquid Storage Systems" (~~2022~~2020).

173
174 PEI/RP 500-19, "Recommended Practices for Inspection and Maintenance
175 of Motor Fuel Dispensing Equipment" (2019).
176
177 PEI/RP 900-21, "Recommended Practices for the Inspection and
178 Maintenance of UST Systems" (2021).
179
180 PEI/RP 1000-22, "Recommended Practices for the Installation of Marina
181 Fueling Systems" (2022).
182
183 PEI/RP 1200-19, "Recommended Practices for the Testing and
184 Verification of Spill, Overfill, Leak Detection and Secondary Containment
185 Equipment at UST Facilities" (2019).
186
187 PEI/RP 1300-20, "Recommended Practices for the Design, Installation,
188 Service, Repair and Maintenance of Aviation Fueling Systems" (2020).
189
190 PEI/RP 1400-21, "Recommended Practices for the Design and Installation
191 of Fueling Systems for Emergency Generators, Stationary Diesel Engines
192 and Oil Burner Systems" (2021).
193
194 Steel Tank Institute (STI). Available from the Steel Tank Institute, 944 Donata
195 Court, Lake Zurich IL 60047, (847) 438-8265:
196
197 STI (F894) (ACT 100), "Specification for External Corrosion Protection
198 of FRP Composite Steel Underground Storage Tanks", revised [July](#)
199 [2019](#)~~May 2018~~.
200
201 Underwriters Laboratories, c/o COMM 2000, 151 Eastern Avenue, Bensenville IL
202 60106, 1-888-853-3503:
203
204 "Standard for Pre-Engineered [and Engineered](#) Dry and [Pre-Engineered](#)
205 Wet Chemical Extinguishing System Units", UL 1254, Sixth Edition
206 (2019), [with revisions through February 9, 2022](#).
207
208 "Standard for Fibre Reinforced Underground Tanks for Flammable and
209 Combustible Liquids", UL 1316, Third Edition (2018), [with revisions](#)
210 [through March 12, 2019](#).
211
212 "Standard for Aboveground Piping for Flammable and Combustible
213 Liquids", UL 1369, [First Edition \(2018~~2020~~\)](#), [with revisions through](#)
214 [August 25, 2020](#).
215

216 US Department of Defense (available at <http://www.wbdg.org/ffc/dod>):

217
218 "Unified Facilities Criteria (UFC) 3-460-01, Design: Petroleum Fuel
219 Facilities", 2019 Edition as revised by Change ~~32~~, eff. [June 8,](#)
220 ~~2023~~[January 12, 2022](#).

221
222 Department of Defense Manual 4140.25, Volume 9, "DoD Management
223 of Energy Commodities: Defense Fuel Support Point (DFSP) Bulk
224 Petroleum Inventory Accounting" (eff. April 4, 2019) (previously
225 consolidated from Department of Defense Instruction Number 4140.25,
226 "DoD Management of Bulk Petroleum Products, Natural Gas, and Coal",
227 Volume II: "Petroleum Management", Chapter 10: "Accountability", eff.
228 June 22, 1994).

- 229
230 b) The following federal regulations (Code of Federal Regulations (CFR)) are
231 incorporated by reference and apply to 41 Ill. Adm. Code 172, 174, 175, 176 and
232 177. Available from the Superintendent of Documents, U.S. Government Printing
233 Office, Washington DC 20401, website for electronic text:
234 <https://ecfr.federalregister.gov>, (202) 512-1800:

235
236 29 CFR 1910.120 (May 14, 2019).

237
238 29 CFR 1910.146 (December 27, 2011).

239
240 29 CFR 1926 (September 15, 2020).

241
242 40 CFR 280 (October 13, 2015).

243
244 40 CFR 302.1 through 302.6 and 355.40 (July 24, 2020).

- 245
246 c) If the above-referenced publications conflict with specific provisions of 41 Ill.
247 Adm. Code 172, 174, 175, 176 or 177, the Illinois rules shall take precedence
248 over the publications identified in subsection (a) and the federal rules (identified
249 in subsection (b)) shall take precedence over the Illinois rules. However, the
250 provisions of 41 Ill. Adm. Code 172, 174, 175, 176, and 177 shall not be deemed
251 to be in conflict with federal rules on the basis that the Illinois rules are more
252 specific than, more stringent than, or impose requirements for which no similar
253 requirements are contained in, laws and rules enforced by agencies of the federal
254 government.

- 255
256 d) The following Illinois regulations are referenced in 41 Ill. Adm. Code 176:

257
258 Pollution Control Board: 35 Ill. Adm. Code 734 (March 19, 2012)

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261
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Department of Transportation: 92 Ill. Adm. Code 172 (January 24, 2018)

(Source: Amended at 48 Ill. Reg. _____, effective _____)