If you have any questions or comments regarding API standards, please visit https://www.api.org/products-and-services/standards

NOTE Free publications with an asterisk are subject to a $10.00 handling charge for each total order, plus actual shipping charges.

**GENERAL**

Pubi 1593
Gasoline Marketing in the United States Today
Provides information on motor fuel and gasoline consumption, U.S. motor fuel distribution, the U.S. gasoline pricing system, motor gasoline prices and taxes, the number/configuration of retail gasoline outlets, and employment/productivity in the retail gasoline distribution industry. Pages: 77

Pubi 1673
Compilation of Air Emission for Petroleum Distribution Dispensing Facilities
Compiles the most widely accepted, available emission factors and emission estimation techniques for developing air emission estimates from evaporative loss sources of petroleum products at marketing and distribution facilities. These losses can occur from transfer and storage operations and fugitive equipment leaks and spillage. Pages: 29
2nd Edition | July 2009 | Product Number: A16732 | Price: $88.00

**AVIATION**

RP 1543
Documentation, Monitoring and Laboratory Testing of Aviation Fuel During Shipment from Refinery to Airport
Aviation fuels pass through a variety of storage and handling facilities, from refinery to airport. As aviation fuels are stored and transported in storage and transportation systems where contact with non-aviation products may occur, a fuel quality monitoring program is required, in addition to equipment, operating, inspection and maintenance standards. The purpose of this practice is to ensure the fuel remains on specification. This recommended practice (RP) was written to provide guidance on the development of an aviation fuel monitoring and testing program (fuel quality monitoring program) for aviation fuel from point of manufacture to delivery to the airport. “Proper handling” entails documenting and testing aviation fuel quality as product is transported throughout the supply chain to maintain the original product specification. Pages: 25
1st Edition | July 2009 | Reaffirmed: April 2019
Product Number: A154301 | Price: $65.00

RP 1595
Design, Construction, Operation, Maintenance, and Inspection of Aviation Pre-Airfield Storage Terminals
Contains basic requirements for the design, construction, operation, and maintenance of pre-airfield storage terminals located directly upstream of the airport, hereafter referred to as “pre-airfield storage terminals.” This recommended practice provides guidance on the minimum equipment standards and operating procedures for the receipt and storage of aviation fuels at pre-airfield storage terminals, located directly upstream of the airport, and its shipment directly via a grade-dedicated pipeline, marine vessel (barge or ship), or road/rail transport to an airport. This RP does not address in-transit or breakout storage upstream of the pre-airfield storage terminal. The design and construction provisions of this standard are intended for application at new facilities. Application of the design and construction provisions of this standard to facilities, equipment, structures, or installations that are already in place, that are in the process of construction or that are installed before the date of this publication, should be evaluated when circumstances merit. Such an evaluation should consider the site-specific circumstances and detailed accounting for both the potential and tolerance for risk, existing conditions at the installation, and overall benefit for applying the required design and construction provisions. The operation, sampling, testing, and maintenance provisions in the various sections of this standard shall apply to both new and existing installations. Pages: 75
2nd Edition | October 2012 | Reaffirmed: April 2019
Product Number: C159502 | Price: $251.00

As of 2010, API does not maintain or distribute the following aviation fuel equipment related documents:

EI 1529
Aviation Fuelling Hose

EI 1540
Design, Construction, Operation and Maintenance of Aviation Fueling Facilities, IP Model Code of Safe Practice Part 7

EI 1542
Identification Markings for Dedicated Aviation Fuel Manufacturing and Distribution Facilities, Airport Storage and Mobile Fuelling Equipment

EI 1550
Handbook on Equipment Used for the Maintenance and Delivery of Clean Aviation Fuel

EI 1581
Specification and Qualification Procedures for Aviation Jet Fuel Filter/Separators

EI 1582
Specification for Similarity for API/EI 1581 Aviation Jet Fuel Filter/Separators

EI 1584
Four-Inch Aviation Hydrant System Components and Arrangements

EI 1585
Guidance in the Cleaning of Aviation Fuel Hydrant Systems at Airports

EI 1590
Specifications and Qualification Procedures for Aviation Fuel Microfilters

EI 1594
Initial Pressure Strength Testing of Airport Fuel Hydrant Systems with Water

EI 1596
Design and Construction of Aviation Fuel Filter Vessels

EI 1597
Procedures for Overwing Fuelling to Ensure Delivery of the Correct Fuel Grade to an Aircraft

EI 1598
Considerations for Electronic Sensors to Monitor Free Water and/or Particulate Matter in Aviation Fuel

EI 1599
Laboratory Tests and Minimum Performance Levels for Aviation Fuel Dirt Defense Filters

The documents listed above are maintained and distributed by the Energy Institute. For ordering information, please refer to the following website: https://publishing.energinst.org/
specialized installations, such as fuel storage systems at marinas or airports.

RP 1604
Closure of Underground Petroleum Storage Tanks
Provides operating procedures that may be used for the abandonment, removal, storage, temporarily-out-service, and sale of used underground tanks that have contained gasoline or other flammable liquids. Pages: 9

3rd Edition | March 1999 | Reaffirmed: December 2010
Product Number: A16043 | Price: $82.00

RP 1615
Installation of Underground Petroleum Storage Systems
Guide to procedures and equipment that should be used for the proper installation of underground storage systems for bulk petroleum products or used oil at retail and commercial facilities. The stored products include gasoline, diesel fuel, kerosene, lubricating oils, used oil, and certain bio-fuel blends. This RP is intended for use by architects, engineers, tank owners, tank operators, and contractors. Contractors, engineers, and owners or operators who are preparing to design or install an UST system should investigate the federal, state, and local requirements and current methods of compliance for vapor recovery in that region. Vapor recovery is covered in detail in Section 17 of this document. This RP is not intended to cover specialized installations, such as fuel storage systems at marinas or airports, heating oil storage systems (either residential or bulk), or systems installed inside buildings. However, it does outline recognized and generally accepted good engineering practices that may be of use for these specialized installations. This RP does not apply to the installation of below ground or above ground bulk storage systems greater than 60,000 gallons. Pages: 89

Product Number: A16156 | Price: $222.00

RP 1621
Bulk Liquid Stock Control at Retail Outlets
Primarily applies to underground storage of motor fuels and used oil at retail and commercial facilities. It assists the operator in controlling bulk stock losses, thereby achieving a high level of safety and pollution control, while maximizing profits. Pages: 25

5th Edition | May 1993 | Reaffirmed: May 2020
Product Number: A16210 | Price: $90.00

RP 1626
Storing and Handling Ethanol and Gasoline-Ethanol Blends at Distribution Terminals and Filling Stations
(includes Errata 1 dated February 2011)
Describes recommended practices for the storing, handling, and fire protection of ethanol and gasoline-ethanol blends from E1 to E10 and from E70 to E100 (used for E85) at distribution terminals and filling stations. Where information exists for gasoline-ethanol blends from E11 to E15, it is shared. Recommended practices for E16 through E69 are not covered because currently these blends are not legal gasoline blends or alternative fuels. There is a general lack of information on the properties of these blends and there are currently no filling station components certified by any nationally recognized testing laboratory for these blends. Pages: 59

2nd Edition | August 2010 | Reaffirmed: May 2020
Product Number: A16262 | Price: $168.00

This publication is a new entry in this catalog.

This publication is related to an API licensing, certification, or accreditation program.
RP 1112
Developing a Highway Emergency Response Plan for Incidents Involving Hazardous Materials
Provides minimum guidelines for developing an emergency response plan for incidents involving hazardous liquid hydrocarbons, such as gasoline and crude oil, transported in MC 306/DOT 406 and MC 307/DOT 407 aluminum cargo tanks, and for coordinating and cooperating with local, state, and federal officials. Covers response plan priorities, personnel training, special equipment, media relations, environmental relations, and post-response activities. The appendices outline a highway emergency response plan and suggest a procedure for removing liquid hydrocarbons from overturned cargo tanks and righting the tank vehicles. Pages: 21
2-Year Extension: January 2018
Product Number: A11123 | Price: $82.00

MOTOR OILS AND LUBRICANTS

Motor Oil Shelf Cards
This two-page laminated guide helps consumers understand the API Engine Oil Quality Marks—the API Certification Mark, “Starburst,” and Service Symbol, “Donut,” and the API Service Categories. Shelf Cards are available in English and Spanish and can be personalized with a company logo. For information on personalizing the shelf cards, call 202-682-8156.
Single copies free on request from API [eolcs@api.org or (202)-682-8516]

API 1509
Engine Oil Licensing and Certification System (amended July 10, 2019)
Describes the API Engine Oil Licensing and Certification System (EOLCS), a voluntary licensing and certification program designed to define, certify, and monitor engine oil performance deemed necessary for satisfactory equipment life and performance by vehicle and engine manufacturers. Engine oil marketers that meet EOLCS requirements may be licensed to display one or more of the API Engine Oil Quality Marks.
Sections 2 through 8 of this publication define the current API engine oil service categories and explain the EOLCS licensing requirements, the API Marks and their use, and the EOLCS Aftermarket Audit Program (AMAP). Annexes A through T provide a brief history of engine oil classifications, describe methods for developing new engine oil performance requirements, and explain the interaction and roles of the various independent organizations that are part of the API EOLCS. Pages: 167

Publ 1520
Directory of Licensees: API Engine Oil Licensing and Certification System
Identifies the companies licensed to display the API Engine Oil Licensing and Certification System (EOLCS) Symbols.
This directory can be accessed only through API’s website, https://www.api.org/products-and-services/engine-oil/eolcs-categories-and-documents/documents/publication-1520

DIESEL FUEL

Publ 1571
Diesel Fuel—Questions and Answers for Highway and Off-Highway Use
Provides answers to some of the frequent questions asked about diesel fuel. Included are explanations of the quality features of diesel fuel and their significance, descriptions of diesel fuel classifications, discussions of additives normally used and their purposes, and explanations of factors that can affect performance. Pages: 20

HEALTH, ENVIRONMENT, AND SAFETY: GENERAL

Std 2350
Overfill Protection for Storage Tanks in Petroleum Facilities (ANSI/API Std 2350)
Applies to storage tanks associated with marketing, refining, pipeline, and terminals operations and with tanks containing Class I or Class II petroleum liquids and use is recommended for Class III petroleum liquids. This standard addresses overfill protection for petroleum storage tanks. It recognizes that prevention provides the most basic level of protection, thus while using both terms “protection” and “prevention,” the document emphasizes prevention. The standard’s scope covers overfill (and damage) prevention practices for aboveground storage tanks in petroleum facilities, including refineries, marketing terminals, bulk plants, and pipeline terminals that receive flammable and combustible liquids. The fourth edition continues to build on experience and new technology through the use of management systems.
This standard does not apply to: underground storage tanks; aboveground tanks of 1320 U.S. gallons (5000 liters) or less; aboveground storage tanks which receive flammable and combustible liquids. The fourth edition continues to build on experience and new technology through the use of management systems. Since operations are the primary overfill prevention safeguard, new definitions and requirements are established for alarms. Risk reduction is also addressed by current and generally accepted industry practices.
The essential elements of this document are based on current industry safe operating practices and existing consensus standards. Federal, state, and local regulations or laws may contain additional requirements for tank overfill protection programs. For existing facilities, the results of a risk-based analysis of aboveground atmospheric petroleum storage tanks may indicate the need for more protection against overfilling. In such cases, some provisions from this standard may be suitable.
The purpose of this standard is to assist owner/operators and operating personnel in the prevention of tank overfills by implementation of a comprehensive overfill prevention process (OPP). The goal is to receive product into the intended storage tank without overfill or loss of containment.
This standard does not apply to: underground storage tanks; aboveground tanks of 1320 U.S. gallons (5000 liters) or less; aboveground tanks which comply with PEI 600; pressure vessels; tanks containing non-petroleum liquids; tanks storing LPG and LNG; tanks at service stations; tanks filled exclusively from wheeled vehicles (i.e. tank trucks or railroad tank cars); and tanks covered by OSHA 29 CFR 1910.119 and EPA 40 CFR 68, or similar regulations. Pages: 75
5th Edition | September 2020
Product Number: K235005 | Price: $135.00

HEALTH, ENVIRONMENT, AND SAFETY: WASTE

Publ 1638
Waste Management Practices for Petroleum Marketing Facilities
Provides specific guidance for managing typical waste streams at petroleum marketing facilities. This publication covers petroleum marketing facilities ranging from retail fuel convenience stores to terminals and lube plants.
Pages: 20
1st Edition | October 1994 | Product Number: A16381 | Price: $82.00
HEALTH, ENVIRONMENT, AND SAFETY: WATER

Publ 1612
Guidance Document for Discharging of Petroleum Distribution Terminal Effluents to Publicly Owned Treatment Works
Provides terminal managers with guidance on discharging terminal effluents to publicly owned treatment works (POTWs). Covers relations with POTW personnel, POTW concerns in accepting terminals wastewater, pretreatment regulations and local limits on the discharge of wastewaters to POTWs, and associated costs. Pages: 34
1st Edition | November 1996 | Product Number: A16121 | Price: $105.00

Publ 1669
Results of a Retail Gasoline Outlet and Commercial Parking Lot Storm Water Runoff Study
Presents the findings of a study to characterize storm water runoff from retail gasoline outlets and compares the results with runoff from commercial parking lots and published urban "background" values. Funded by the Western States Petroleum Association (WSPA) and the American Petroleum Institute (API), the results of this study indicate that fueling activities at normally operated and maintained retail gasoline outlets do not contribute additional significant concentrations of measured constituents in storm water runoff. Pages: 24
1st Edition | December 1994 | Product Number: A16691 | Price: $90.00

HEALTH, ENVIRONMENT, AND SAFETY: SOIL AND GROUNDWATER

Publ 1628
A Guide to the Assessment and Remediation of Underground Petroleum Releases
Provides an overview of proven technologies for the assessment and remediation of petroleum releases in soil and groundwater. Covers accidental releases arising from the production, transportation, refining, and marketing of liquid petroleum products or unrefined crude oil. Pages: 119
3rd Edition | July 1996 | Product Number: A16283 | Price: $177.00
Publ 1628 and its five companion publications (1628A, 1628B, 1628C, 1628D, and 1628E) may be purchased as a set.
Order Number: A1628S | Price: $350.00

Publ 1628A
Natural Attenuation Processes
Describes the physical, chemical, and biological processes that decrease the concentrations and ultimately limit the extent of the dissolved plume migrating from a hydrocarbon release. Pages: 16
1st Edition | July 1996 | Product Number: A1628A | Price: $64.00

Publ 1628B
Risk-Based Decision Making
Discusses risk-based decision making approaches used for the assessment of hazardous conditions. Also presents information that can be utilized to focus remedial measures and funds on petroleum hydrocarbon release sites while being protective of human health and the environment, and to facilitate timely closure of hydrocarbon-impacted sites. Pages: 13
1st Edition | July 1996 | Product Number: A1628B | Price: $64.00

Publ 1628C
Optimization of Hydrocarbon Recovery
Covers the optimization, in its broadest sense, to achieve an environmentally sound site closure in the appropriate timeframe for the least cost (to maximize efficiency of the selected system). Pages: 20

Publ 1628D
In-Situ Air Sparging
Addresses in-situ air sparging. Covers remediation technologies, starting with the early techniques of containment or mass reduction through today's very aggressive site closure techniques. Addresses containment as well as residual petroleum hydrocarbon compounds. Pages: 13

Publ 1628E
Operation and Maintenance Considerations for Hydrocarbon Remediation Systems
Discusses concepts regarding operation and maintenance procedures necessary to achieve and maintain optimal performance of petroleum hydrocarbon remediation systems. Pages: 23
1st Edition | July 1996 | Product Number: A1628E | Price: $64.00

Publ 1629
Guide for Assessing and Remediating Petroleum Hydrocarbons in Soils
This publication provides information regarding the site and release characteristics relevant to, and methods for assessing and remediating, soils contaminated with petroleum hydrocarbons released from underground or aboveground storage tank systems and operations. Developed to complement Publ 1628, which focuses primarily on assessing and remediating petroleum releases that may impact groundwater. Pages: 81

SECURITY

Std 1164
Pipeline SCADA Security
Provides guidance to the operators of oil and gas liquids pipeline systems for managing SCADA system integrity and security. The use of this document is not limited to pipelines regulated under Title 49 CFR 195.1, but should be viewed as a listing of best practices to be employed when reviewing and developing standards for a SCADA system. This document embodies API's Security Guidelines for the Petroleum Industry. This guideline is designed to provide operators with a description of industry practices in SCADA security, and to provide the framework needed to develop sound security practices within the operator's individual companies. It is important that operators understand system vulnerability and risks when reviewing the SCADA system for possible system improvements. The goal of an operator is to control the pipeline such that there are no adverse effects on employees, the environment, the public, or the customers as a result of actions by the operator, or by other parties. This document's main body provides a high-level view of holistic security practices. The annexes provide further details and technical guidance. Reviewing this document and following the guidance set forth in the annexes assists in creating inherently secure operations. Implementation of this standard to advance supervisory control and data acquisition (SCADA) cyber security is a continuous process. The overall process could take years to implement, depending on the complexity of the SCADA system. Additionally, the process would optimally be started as part of a SCADA upgrade project and use this standard to "design in" security as an element of the new system. Pages: 76
Product Number: D11642 | Price: $158.00