

Safe Access/Egress Involving Floating Roofs of Storage Tanks in Petroleum Service

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Suggested revisions are invited and should be submitted to the Standards Department, API, 200 Massachusetts Avenue, NW, Suite 1100, Washington, DC 20001, standards@api.org.

Contents

	Page
1	Scope..... 1
1.1	General 1
1.2	Objectives 1
2	Normative References 1
3	Terms, Definitions, Acronyms, and Abbreviations 2
3.1	Terms and Definitions 2
3.2	Acronyms and Abbreviations 5
4	General Precautions for Descent onto Floating Roofs 5
4.1	General Conditions 5
4.2	Confined-space Permit Program Requirements 6
4.3	Requirements for Descent onto Floating Roofs 7
5	Potential Hazards Associated with Entry onto Floating Roofs 7
5.1	Potential Atmospheric Hazards 7
5.2	Potential Oxygen Content Hazards 7
5.3	Potential Flammable Vapor Hazards 7
5.4	Potential Toxic Vapor and Gas Hazards 8
5.5	Potential Vapor Exposures 8
5.6	Potential Fire Hazards 9
5.7	Potential Physical Hazards 9
6	Preparation for Entry onto Floating Roofs: Ventilation, Testing, and Rescue 11
6.1	Ventilation Requirements 11
6.2	Atmospheric Testing Requirements 12
6.3	Emergency Rescue Planning 13
7	Additional Procedures for Descent onto External Floating Roofs 14
7.1	Additional Procedures 14
7.2	Permissible Work on External Floating Roofs 16
8	Additional Procedures for Descent onto Internal and Covered External Floating Roofs 17
8.1	General 17
8.2	Preparations Prior to Descent onto Internal and Covered External Floating Roofs 17
8.3	Working on Internal and Covered External Floating Roofs of Tanks in Service 18
8.4	Permissible Work on Internal and Covered External Floating Roofs 18
	Bibliography 20

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1 Scope

1.1 General

1.1.1 This recommended practice (RP) addresses the hazards associated with access/egress onto external and internal floating roofs of in-service petroleum storage tanks and identifies some of the most common practices and procedures for safely accomplishing this activity.

1.1.2 This RP is intended primarily for those persons who are required to perform inspection, service, maintenance, or repair activities that involve descent onto floating roofs of in-service petroleum tanks.

1.1.3 This RP does not cover general considerations that apply to but are not limited to access:

- a) on slippery or ice-covered stairways and walkways,
- b) during electrical storms,
- c) during emergency conditions (such as to extinguish a fire or cover exposed product with foam).

This RP may not apply to daily or routine tasks of tank gaugers and other personnel involved in non-permit-required confined spaces; however, such persons shall be trained and shall be made aware of the potential hazards described herein.

1.1.4 Preparations and precautions for entering petroleum storage tanks that have been removed from service for cleaning are covered in API 2015.

1.1.5 Some owner/operators have policies that are more stringent than those in this document. Some owner/operators do not permit access onto floating roofs while the tanks are in service. In these cases, owner/operator policies will supersede this document with respect to safe access requirements and limitations.

1.2 Objectives

This RP has the following objectives:

- a) to identify the potentially hazardous conditions associated with access/egress onto external and internal floating roofs of storage tanks while the tanks are in petroleum service; and
- b) to establish general precautionary measures appropriate to individual situations.

2 Normative References

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any addenda) applies.

API Standard 650, *Welded Tanks for Oil Storage*

API Standard 2015, *Requirements for Safe Entry and Cleaning of Petroleum Storage Tanks*

API Recommended Practice 2027, *Ignition Hazards and Safe Work Practices for Abrasive Blasting of Atmospheric Storage Tanks in Hydrocarbon Service*