First Revision No. 1-NFPA 51B-2021 [Section No. 2.2]

2.2 NFPA Publications.

National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471.

NFPA 10, *Standard for Portable Fire Extinguishers,* ~~2018~~ 2022 edition.

NFPA 51, *Standard for the Design and Installation of Oxygen–Fuel Gas Systems for Welding, Cutting, and Allied Processes,* ~~2018~~ 2023 edition.

NFPA 55, *Compressed Gases and Cryogenic Fluids Code,* ~~2016~~ 2023 edition.

NFPA 241, *Standard for Safeguarding Construction, Alteration, and Demolition Operations,* ~~2018~~ 2022 edition.

NFPA 326, *Standard for the Safeguarding of Tanks and Containers for Entry, Cleaning, or Repair,* 2020 edition.

Submitter Information Verification

Committee: HWO-AAA
Submittal Date: Fri Jul 16 13:45:25 EDT 2021

Committee Statement

Committee Statement: Updates made to edition years of NFPA publications. Added NFPA 326.
Response Message: FR-1-NFPA 51B-2021

First Revision No. 2-NFPA 51B-2021 [Section No. 2.4]

2.4 References for Extracts in Mandatory Sections.

NFPA 1, *Fire Code*, ~~2018~~ 2021 edition.

Submitter Information Verification

Committee: HWO-AAA
Submittal Date: Fri Jul 16 13:47:08 EDT 2021

Committee Statement

Committee Statement: Update made to edition year of reference for extracts.
Response Message: FR-2-NFPA 51B-2021

First Revision No. 4-NFPA 51B-2021 [Section No. 5.5.1.7]

5.5.1.7*

If hot work is done on one side of a noncombustible wall, partition, ceiling, or roof, the criteria ~~in either 5.5.1.7.1 or 5.5.1.7.2~~ of one of the following shall apply~~.~~ :

(1) The PAI shall verify that no combustibles are at risk of ignition on the other side.

(2) Precautions shall be taken to prevent ignition of combustibles on the other side by relocating the combustibles.

(3) If it is impractical to relocate combustibles, a fire watch shall be provided on the side opposite from where the work is being performed.

A.5.5.1.7

Where a wall or similar structure is noncombustible and is so large that the PAI determines that combustibles on the opposite side from where the hot work is being performed pose no risk of ignition, then the combustible materials need not be moved and a fire watch is not required.

~~**5.5.1.7.1**~~

~~Precautions shall be taken to prevent ignition of combustibles on the other side by relocating the combustibles.~~

~~**5.5.1.7.2**~~

~~If it is impractical to relocate combustibles, a fire watch shall be provided on the side opposite from where the work is being performed.~~

Supplemental Information

File Name	Description	Approved
51B_FR4_Section_5.5.1.7.docx	Word doc to reflect all changes made to this section. For staff use	

Submitter Information Verification

Committee: HWO-AAA
Submittal Date: Mon Jul 19 12:51:03 EDT 2021

Committee Statement

Committee Statement: Changes clarify the responsibilities of the PAI with regard to the assessment of the planned hot work in areas around noncombustible walls by providing specific steps for assessing the hazard conditions and specific control measures.

Response Message: FR-4-NFPA 51B-2021

Public Input No. 6-NFPA 51B-2020 [Section No. 5.5.1.7 [Excluding any Sub-Sections]]

First Revision No. 5-NFPA 51B-2021 [New Section after 5.5.1.15]

5.5.1.16

Where hot work operations are to be performed on tanks, containers, or piping that have contained ignitible liquids or other combustible materials, such operations shall be permitted only if the tanks, containers, or piping have been cleaned or purged in accordance with NFPA 326 .

Submitter Information Verification

Committee: HWO-AAA

Submittal Date: Mon Jul 19 14:10:36 EDT 2021

Committee Statement

Committee Statement: During prior revision to NFPA 51B, the CSB proposed changes to the standard to address specific hot work hazards identified during investigations. Specifically, the CSB highlighted that atmospheric hazards often exist in and around tanks, piping and related appurtenances and should be monitored to ensure concentrations are less than the LFL (generally less than 10% LFL). Since the CSB public comment was deemed new material in accordance with the NFPA regulations governing committee projects, the Committee acted to Reject, Hold the comment. The First Revision is being offered to establish the basis for addressing the CSB recommendation, while permitting time for further review of NFPA 326 and possible communication with CSB.

Response Message: FR-5-NFPA 51B-2021

Public Input No. 10-NFPA 51B-2021 [New Section after 5.5]

First Revision No. 15-NFPA 51B-2021 [New Section after 5.6.1.1]

5.6.1.2

The duration of the fire watch shall be permitted to be reduced to no less than 30 minutes if the PAI determines the absence of fire hazards warrants the reduction.

Submitter Information Verification

Committee: HWO-AAA

Submittal Date: Mon Jul 26 13:40:50 EDT 2021

Committee Statement

Committee Statement: There is a recognized need for a 1 hr fire watch. However, there are circumstances where the fire watch may be reduced to a 30 minutes as determined by the PAI.

Response Message: FR-15-NFPA 51B-2021

Public Input No. 9-NFPA 51B-2021 [Section No. 5.6.1.1]

First Revision No. 7-NFPA 51B-2021 [Section No. A.5.7]

A.5.7

For hot tapping on a gas pipeline, see ASME B31.8, *Gas Transmission and Distribution Piping Systems*.

For hot tapping on a liquid pipeline, see API RP 2201, *Safe Hot Tapping Practices in the Petroleum and Petrochemical Industries* .

Submitter Information Verification

Committee: HWO-AAA

Submittal Date: Mon Jul 19 14:19:56 EDT 2021

Committee Statement

Committee Statement: The submitter's recommended changes included several items that did not conform to the NFPA Manual of Style (non mandatory language and text is more suitable for annex material). The submitter also suggested including a requirement pertaining to cold work identified as hot work; this is not consistent the scope of this standard. The committee added annex material to reference source for guidance on hot tapping for liquid pipelines to complement the existing guidance for gas pipelines.

Response Message: FR-7-NFPA 51B-2021

Public Input No. 1-NFPA 51B-2019 [Section No. 5.7]

First Revision No. 3-NFPA 51B-2021 [Sections C.1, C.2]

C.1 Referenced Publications.

The documents or portions thereof listed in this annex are referenced within the informational sections of this standard and are not part of the requirements of this document unless also listed in Chapter 2 for other reasons.

C.1.1 NFPA Publications.

National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471.

NFPA 1, *Fire Code*, ~~2018~~ 2024 edition.

NFPA 241, *Standard for Safeguarding Construction, Alteration, and Demolition Operations*, ~~2018~~ 2022 edition.

NFPA 326, *Standard for the Safeguarding of Tanks and Containers for Entry, Cleaning, or Repair*, ~~2015~~ 2020 edition.

NFPA 655, *Standard for Prevention of Sulfur Fires and Explosions*, 2017 edition.

C.1.2 Other Publications.

Dr. Vytenis Babrauskas, *Ignition Handbook* , Fire Science Publishers, 2003 .

C.1.2.1 ANSI Publications.

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

ANSI/FM 4950, *American National Standard for Evaluating Welding Pads, Welding Blankets and Welding Curtains for Hot Work Operations*, 2014.

ANSI Z49.1, *Safety in Welding, Cutting, and Allied Processes*, 2012.

C.1.2.2 API Publications.

American Petroleum Institute, 200 Massachusetts Avenue, NW, Suite 1100, Washington, DC 20001-5571.

API RP 2201, *Safe Hot Tapping Practices in the Petroleum and Petrochemical Industries* .

C.1.2.3 ASME Publications.

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

ASME B31.8, *Gas Transmission and Distribution Piping Systems,*~~2014~~ 2020 .

C.1.2.4 AWS Publications.

American Welding Society, 8669 NW 36 Street, #130, Miami, FL 33166-6672.

AWS F4.1, *Recommended Safe Practices for the Preparation for Welding and Cutting Containers and Piping,* 2007.

C.2 Informational References.

The following documents or portions thereof are listed here as informational resources only. They are not a part of the requirements of this document.

NFPA 56, *Standard for Fire and Explosion Prevention During Cleaning and Purging of Flammable Gas Piping Systems*, ~~2017~~ 2020 edition.

NFPA 61, *Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities*, ~~2017~~ 2020 edition.

NFPA 122, *Standard for Fire Prevention and Control in Metal/Nonmetal Mining and Metal Mineral Processing Facilities*, ~~2015~~ 2020 edition.

NFPA 306, *Standard for the Control of Gas Hazards on Vessels*, 2019 edition.

NFPA 312, *Standard for Fire Protection of Vessels During Construction, Conversion, Repair, and Lay-Up*, ~~2016~~ 2021 edition.

NFPA 909, *Code for the Protection of Cultural Resource Properties — Museums, Libraries, and Places of Worship*, ~~2017~~ 2021 edition.

Submitter Information Verification

Committee: HWO-AAA
Submittal Date: Fri Jul 16 13:51:21 EDT 2021

Committee Statement

Committee Statement: Updated publications and references edition years. Added API RP 2201 publication.
Response Message: FR-3-NFPA 51B-2021