

NFPA 385 Technical Committee on Transportation of Flammable Liquids

First Draft Meeting Minutes

Web/teleconference

May 4, 2020

ATTENDANCE

Chair	David Hollinger	Drexel University	U
Staff Liaison	Michael Marando	National Fire Protection Association	N/A
	Heath Denh	National Fire Protection Association	N/A
Principals			
	Erick Hawley-Saia	Greenwich Terminals, LLC	U
	J. R. Nerat	UTC/Badger Fire Protection	M
	Jacob Waldschmidt	City of Kenosha Fire Department	E

1. Chairman's Remarks.

- Called the meeting to order at 10:02 a.m. (EDT) on May 4, 2020.
- Welcomed new and existing TC members.

2. Introductions. NFPA staff took attendance.

3. Approval of Minutes. The minutes of the March 10, 2016 Second Draft Meeting were reviewed and approved as written.

4. Staff Updates. Mike Marando provided an overview of the Fall 2021 revision cycle schedule and the NFPA process.

5. Review of Public Comments and Committee Inputs. The Technical Committee reviewed Public Inputs and resolved them with First Revisions as necessary. These will be available in the First Draft Report at www.nfpa.org/385next by September 10, 2020.

6. New Business. A Task Group consisting of J.R. Nerat (chair) and Eric Hawley-Saia was formed to address minimum distances for smoking and ignition sources raised in Public Inputs 1 and 2.

7. Next Meeting. The committee will meet again by conference call on June 4 at 10 a.m. (EDT) to discuss minimum distances for smoking and ignition sources.

8. Adjourned. The meeting adjourned on May 4, 2020 at 12:04 p.m. (EDT), to be continued on June 4, 2020 at 10 a.m. (EDT).

Web/teleconference
June 4, 2020

ATTENDANCE

Chair	David Hollinger	Drexel University	U
Staff Liaison	Michael Marando	National Fire Protection Association	N/A
	Heath Denh	National Fire Protection Association	N/A
Principals	Erick Hawley-Saia	Greenwich Terminals, LLC	U
	J. R. Nerat	UTC/Badger Fire Protection	M

- 1. Chairman's Remarks.** Called the meeting to order at 10:05 a.m. (EDT) on June 4, 2020.
- 2. Introductions.** NFPA staff took attendance.
- 3. Review of Public Comments and Committee Inputs.** The Technical Committee reviewed Public Inputs and resolved them with First Revisions as necessary. These will be available in the First Draft Report at www.nfpa.org/385next by September 10, 2020.
- 4. Task Group Report.** The Task Group formed to address minimum distances for smoking and ignition sources presented their findings to the group. Their report is attached.
- 5. Next Meeting.** The committee will meet again in the first half of 2021, prior to the May 20, 2021 deadline for the Second Draft meeting. NFPA staff will send out a poll for dates closer to that time
- 6. Adjourned.** The meeting adjourned on June 4, 2020 at 10:31 a.m. (EDT).

2021 NFPA-385 Committee Task Group

J.R. Nerat (Chair)

Erick J Hawley-Sala

Task:

-Research and review information cross-referencing a proper minimum safety distance recommendation of 25 ft associated with a PI regarding smoking and open flame ignition sources.

-Provide recommendation to full technical committee on how to respond to public inputs #1 and #2.

Background:

J.R. contacted and discussed matter with submitter (Ted Lemoff) who shared some additional background and references.

Per CFR-49 DOT part 397.13 the federal motor carrier distance recommendation of 25 feet has been a long-standing minimum distance recommendation prohibiting any type of smoking near vehicles containing class 1 fuels. This recommendation is a federal code requirement and something that should be properly considered by the technical committee, for reference within NFPA-385.

Per DOT, any vehicles containing hazardous materials should also not be parked within 300 feet of an open fire or be operated near a fire, unless driver has first taken precautions to ascertain the vehicle can safely pass the fire without stopping.

Erick H.-Saia researched additional regulations and standards for possible recommendations towards distances between open flames and hazardous chemicals or materials, including:

OSHA 29 CFR 1910.252(a)(2): 35 ft from combustible materials

OSHA 29 CFR 1915.504(b): 35 ft from combustible materials

OSHA 29 CFR 1915.14(a)(1)(iv): Exception to Marine Chemist – hot work is 25 ft or greater from certain spaces that contain, or previously contained, flammable gases or liquids

OSHA 29 CFR 1917.152(d)(1)(xvi): O2 at least 20 ft from fuel gases

OSHA 29 CFR 1918.96: no hot work “within vicinity”

OSHA 29 CFR 1926.1519(a)(3): not permitted “at or in vicinity of operations” that may present a fire hazard

DOT 49 CFR 177.834(c): “Smoking on or about any motor vehicle loading or unloading any Class 1...Class 3...Class 4...Class 5...or Division 2.1...is forbidden.”

DOT 49 CFR 177.834(d): “Extreme care shall be taken in the loading or unloading of any...[same as above Classes]... into or from any motor vehicle to keep fire away and to prevent persons in the vicinity from smoking, lighting matches, or carrying any flame for lighted cigar, pipe, or cigarette.”

NFPA 51B, 2019 – Ch. 5: 35 ft from combustibles

NFPA 306, 2019 – A.5.8: Competent person may authorize hot work without Marine Chemist if greater than 25 ft from certain spaces that contain, or previously contained, flammable gases or liquids

NFPA 307, 2016 – 10.11: hot work not permitted within 100 ft of bulk cargo operations involving loading or unloading flammable/combustible materials, bunkering or explosives, and no less than 50 ft from all other hazmat.

NFPA 307, 2016 – 10.11.5.2: **Smoking and open flames** shall not be permitted within 50 ft of hazmat storage

Task Groups Comments/Thoughts:

Because NFPA-385 chapter-9 specifically deals with the loading and unloading of tank vehicles, it is important for this standard to provide some sort of enforceable minimum distance recommendation for prohibiting potential ignition sources such as smoking and other open types of flames.

The committee should consider revising existing paragraph 9.2.14 to include a 25 foot minimum distance for smoking and other potential open flame sources of ignition, but then provide a new ANNEX reference A.9.2.14 that helps further explain and address applicable ignition safety related concerns/points (temperature, humidity, etc.).

Delete existing paragraph 9.2.15....as it's now better addressed within proposed 9.2.14 and A.9.2.14.

9.2.14* No smoking or other open sources of flame are permitted within 25 feet (7.62 m) of any fuel loading or unloading operation.

A.9.2.14 Vehicle operators and facility operators should always exercise extreme care and vigilance during fuel transfers to ensure that no potential sources of ignition such as smoking or open flames exposures are present. Additional applicable codes as well as various environmental site conditions, may additionally dictate extended safety distances beyond 25 ft to properly mitigate potential ignition concerns.