



NATIONAL FIRE PROTECTION ASSOCIATION

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AGENDA

Technical Committee on Liquid Fuel Burning Equipment (LPI-AAA) NFPA 31 First Draft Meeting (F2023)

April 5 and April 19 (if necessary), 2022
12:00 p.m. – 4:30 p.m. (ET)

Web/Teleconference

To join the meeting, please contact ksmith@nfpa.org

1. **Call to order.** Roland Riegel.
2. **Introductions.** See committee roster attached.
3. **Chair report.** Roland Riegel.
4. **Staff liaison report.** Mike Marando.
5. **Previous meeting minutes.** Pre-First Draft Meeting/June 2021. See attached.
6. **NFPA 31 First Draft.**
 - a. **Public Inputs.** See attached.
 - b. **Task group reports.**
 - i. UL 180/NFPA 31 Vent Cap Opening.
 - ii. NFPA 31/54/211 Chimney and Venting.
7. **Other Business.**
 - a. ASTM D02 – Petroleum Products, Liquid Fuels, and Lubricants
 - b. NFPA 31 Figures 8.9.1, 8.9.2 and 8.9.3 revisions from Committee Input 22 (2021 revision cycle)
 - c. Annex E Venting Research
8. **Future meetings.**
9. **Adjournment.**

Address List No Phone

02/14/2022
Michael Marando
LPI-AAA

Liquid Fuel Burning Equipment

Roland A. Riegel Chair UL LLC 1285 Walt Whitman Road Melville, NY 11747-3085	RT 1/1/1992 LPI-AAA	James Aycock Principal Field Controls LLC 2630 Airport Road Kinston, NC 28504-7319	M 03/03/2014 LPI-AAA
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Robert V. Boltz Principal Vincent R. Boltz, Inc. 45 Guilford Street Lebanon, PA 17046	IM 4/5/2001 LPI-AAA	Aaron J. Clark Principal Lipton Energy Inc. 1080 Holmes Road Pittsfield, MA 01201	IM 9/30/2004 LPI-AAA
Brian Coyne Principal Mitco Manufacturing 7245 East Carter Road Westmoreland, NY 13490	M 4/4/2017 LPI-AAA	Marvin Evans Principal CSA Group 178 Rexdale Boulevard Toronto, ON M9W 1R3 Canada	RT 04/02/2020 LPI-AAA
Christopher D. Faucher Principal Bay Path Regional Vocational Technical High School 57 Old Muggett Hill Road Charlton, MA 01507-1331	SE 08/11/2014 LPI-AAA	Leo Herrmann Principal Leo Herrmann Fireplace Inc. 103 Trenton Circle Fairless Hills, PA 19030	SE 11/30/2016 LPI-AAA
Dale D. Hersey Principal State of Maine Department of Professional & Financial Regulation 35 State House Station Augusta, ME 04333	E 7/14/2004 LPI-AAA	Rocco J. Lacertosa Principal New York Oil Heating Association 350 5th Avenue, #5949/50 New York, NY 10118 Alternate: David M Wagner	IM 8/17/2015 LPI-AAA
Yves Legault Principal Granby Industries LP 1020 Andre Line Granby, QC J2J 1J9 Canada Alternate: Eric Bourassa	M 3/2/2010 LPI-AAA	John F. Levey Principal Oilheat Associates, Inc. 1597 Earl Road Wantagh, NY 11793 National Oilheat Research Alliance Alternate: Robert O'Brien	C 11/2/2006 LPI-AAA

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Liquid Fuel Burning Equipment

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John J. Pilger Principal Chief Chimney Services, Inc. 24 Hofstra Drive Smithtown, NY 11787 Chimney Safety Institute of America (CSIA)	IM 01/12/2000 LPI-AAA	Andrew Sozio Principal AKS Mechanical Services, Inc. 173 Anselm Drive Richboro, PA 18954	IM 08/24/2021 LPI-AAA
Charles R. Tibboles Principal R. W. Beckett Corporation 38251 Center Ridge Road PO Box 1289 Elyria, OH 44036	M 1/17/1997 LPI-AAA	Thomas J. Tubman Principal American Energy Coalition 183 Madison Avenue, Suite 1403 New York, NY 10016-4501	IM 04/08/2015 LPI-AAA
Lisa Reiheld Voting Alternate Viega LLC 282 Stone Meadow Circle Loudonville, OH 44842	M 12/02/2020 LPI-AAA	Eric Bourassa Alternate Granby Industries LP 1020 Andre Line Granby, QC J2J 1J9 Canada Principal: Yves Legault	M 03/03/2014 LPI-AAA
Robert G. Hedden Alternate Oilheat Associates 3125 Lilly Hill Road Pawlet, VT 05761 Oilheat Manufacturers Association Principal: John E. Batey	M 1/18/2001 LPI-AAA	Robert O'Brien Alternate National Oilheat Research Alliance (NORA) 78 Chestnut Street Mount Sinai, NY 11766 Principal: John F. Levey	C 08/24/2021 LPI-AAA
David M Wagner Alternate New York Oil Heating Association 350 5th Avenue, Suite #5949/50 New York, NY 10118 Principal: Rocco J. Lacertosa	IM 12/07/2018 LPI-AAA	Michael Marando Staff Liaison National Fire Protection Association Staff Liaison One Batterymarch Park Quincy, MA 02169-7471	09/26/2019 LPI-AAA

NFPA 31 Technical Committee on Liquid Fuel Burning Equipment (LPI-AAA)

Pre-First Draft Meeting Minutes

Web/teleconference

June 22, 2021

ATTENDANCE

Chair	Roland Riegel	UL	R/T
NFPA Staff	Alex Ing	National Fire Protection Association	N/A
Principals	James Aycock	Field Controls LLC	M
	Aaron Clark	Lipton Energy Inc.	IM
	Marvin Evans	CSA	R/T
	Mark Fasel	Viega LLC	M
	Christopher Faucher	Bay Path Regional Vocational Technical High School	SE
	Leo Herrmann	Leo Herrmann Fireplace Inc.	SE
	Dale Hersey	State of Maine	E
	John Levey	Oilheat Associates, Inc.	C
	Matthew Menotti	Intertek	R/T
	John Pilger	Chief Chimney Services, Inc.	IM
	Charles Tibboles	R.W Beckett Corp.	M
	Thomas Tubman	American Energy Coalition	IM
Alternates	Eric Bourassa	Granby Industries LP	M
	Lisa Reiheld	Viega LLC	M
Guest	Roy Creley	Lakes Environmental	N/A

1. Introductions. NFPA staff took attendance.

2. Chairman's Remarks.

- Called the meeting to order at 9:00 a.m. (ET) on June 22, 2021.
- Welcomed TC members and Guests
- Thanked retired members (Bernie Smith and Paul Moody) for their service
- Reminded members to send updates on contact information and/or representation.
- Pre-First Draft Meeting goal to clean up old issues and identify new ones for potential Public Inputs
- Request for members interested in Committee Chair for next cycle to contact Roland and Mike Marando, NFPA Staff Liaison.

3. Staff Updates. Alex Ing provided an overview of NFPA policies.

4. Approval of Minutes. The minutes of the April 16, 2019, Second Draft Meeting were reviewed and approved as written.

5. New Business.

- Resolving UL 180 and NFPA 31 differences in vent cap openings and mesh size
 - Small TG (Riegel, Levey, Bourassa, Olszewski) formed to resolve problems and submit proposals to UL180 and/or NFPA 31.
- NFPA 31/54/211 Chimney and Venting Task Group work
 - The task group reported that there are no specific proposals for NFPA 31 at this time. The task group is still working and will aim to provide input for the first draft.
- New NFPA Fuel Systems Task Group work
 - Task Group Chair Roy Creley reported on the task group status and the scope of the work was explained. LPI-AAA Technical Committee members were urged to review the details.
- ASTM D02 - Petroleum Products, Liquid Fuels, and Lubricants
 - D396 may increase biodiesel levels (B50?)
 - New government mandates push increased biodiesel levels (B20-B50)
 - Ch 4 and Appendix may need updates to address these
- Figs 8.9.1, 8.9.2 and 8.9.3 changes related to CI 22 (from last cycle).
 - J. Levey to submit PI.
- Annex E Venting Research
 - The task group reported and gave an update on the status. The task group recommended to keep Annex E currently where it is as it is still applicable for older appliances. The task group was thanked for its work and dismissed.

6. Next Meeting. The committee will meet again at the First Draft meeting, expected to be in early to mid-2022. The committee was encouraged to recommend locations as the meeting is expected to be in-person.

7. Adjourned. The meeting adjourned on June 22, 2021, at 10:27 a.m. (ET).



Public Input No. 1-NFPA 31-2021 [Global Input]

Global Remove the terms “Standard for” or “Subject” from in front of all UL standards referenced in NFPA 31.

Statement of Problem and Substantiation for Public Input

The terms are redundant and unnecessary. All references to UL are considered standards.

Submitter Information Verification

Submitter Full Name: Kelly Nicolello

Organization: UL

Street Address:

City:

State:

Zip:

Submittal Date: Thu Dec 30 11:06:54 EST 2021

Committee: LPI-AAA



Public Input No. 2-NFPA 31-2021 [Section No. 2.3.5]

2.3.5 UL Publications.

Underwriters Laboratories Inc., 333 Pfingsten Road, Northbrook, IL 60062-2096.

UL 30, ~~Standard for Metal~~ Metal Safety Cans, 1995, revised 2014 2019 .

UL 58, ~~Standard for Steel Underground Tanks for Flammable and Combustible Liquids~~, 2006 2018 .

UL 80, ~~Standard for Steel~~ Steel Tanks for Oil-Burner Fuels and Other Combustible Liquids, 2007, revised 2014 2019 .

UL 103, ~~Standard for Factory~~ Factory -Built Chimneys for Residential Type and Building Heating Appliances, 2010, revised 2016 2021 .

UL 142, ~~Standard for Steel Aboveground Tanks for Flammable and Combustible Liquids~~, 2006 2019 , 2014 revised 2020 .

UL 142A, ~~Standard for Special Purpose Aboveground Tanks for Specific Flammable or Combustible Liquids~~, 2018, revised 2020 .

UL 180, ~~Standard for Combustible Liquid Tank Accessories~~, 2019 2021 .

UL 295, ~~Standard for Commercial-Industrial Gas Burners~~, 2017, revised 2019 .

UL 296, ~~Standard for Oil Burners~~, 2003 2017 , revised 2017 2020 .

UL 296A, ~~Standard for Waste Oil-Burning Air-Heating Appliances~~, 2013 2018 .

UL 443, ~~Standard for Steel Auxiliary Tanks for Oil Burner Fuel~~, 2006, revised 2013. ~~UL 971, Standard for~~

UL 641, Type L Low-Temperature Venting Systems, 2010, revised 2018.

UL 647, Unvented Kerosene-Fired Room Heaters and Portable Heaters , 1993.

UL 896, Oil-Burning Stoves , 1993, revised 2016 .

UL 971, Nonmetallic Underground Piping for Flammable Liquids, 1995, revised 2013 2021 .

UL971A, Outline of Investigation for Metallic Underground Fuel Pipe, 2006.

UL 1313, ~~Standard for Nonmetallic Safety Cans for Petroleum Products~~, 2015.

UL 1316, ~~Standard for Glass-Fiber-Reinforced Plastic Underground Storage Tanks for Petroleum Products, Alcohols, and Alcohol-Gasoline Mixtures~~, 1994, revised 2006 2019 .

UL 1746, ~~Standard for External Corrosion Protection Systems for Steel Underground Storage Tanks~~, 2007, revised 20214 .

UL 2039, ~~Standard for Safety for Flexible Connector Piping for Fuels~~, 2006 2016 .

UL 2080, ~~Standard for Fire Resistant Tanks for Flammable and Combustible Liquids~~, 2000.

UL 2085, ~~Standard for Protected Aboveground Tanks for Flammable and Combustible Liquids~~, 1997, revised 2003.

UL 2245, ~~Standard for Below-Grade Vaults for Flammable Liquid Storage Tanks~~, 2006.

UL 2258, ~~Standard for Nonmetallic Tanks for Oil Burner Fuels and Other Combustible Liquids~~, 2018, revised 2019 .

Statement of Problem and Substantiation for Public Input

Update UL references. Public Input added UL 641, UL 647 and UL 896 to the body of the code and provided the technical committee agrees, these two references should be added to Chapter 2 references for correlation.

Related Public Inputs for This Document

<u>Related Input</u>	<u>Relationship</u>
Public Input No. 1-NFPA 31-2021 [Global Input]	
Public Input No. 3-NFPA 31-2021 [Section No. F.1.2.7]	

Submitter Information Verification

Submitter Full Name: Kelly Nicoletto

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Submittal Date: Thu Dec 30 11:09:13 EST 2021

Committee: LPI-AAA



Public Input No. 4-NFPA 31-2022 [Section No. 6.7.1.2]

6.7.1.2

Type L venting systems shall be listed and labeled in accordance with UL 641 and installed and used in accordance with their listings and the manufacturers' instructions.

Statement of Problem and Substantiation for Public Input

Section 6.7.1.2 requires Type L venting systems to be installed in accordance with their listing, but does not identify the standard to be used, which is UL 641. Listed systems are identified with a label.

Submitter Information Verification

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Submittal Date: Tue Jan 04 14:44:41 EST 2022

Committee: LPI-AAA



Public Input No. 5-NFPA 31-2022 [Section No. 11.3.1]

11.3.1*

Kerosene-burning portable heaters shall be ~~listed~~ listed and labeled in accordance with UL 647 and used in accordance with the listing and the manufacturer's instructions .

Statement of Problem and Substantiation for Public Input

This proposal moves the reference to UL 647 listing from the annex to the body of the standard and includes a reference to labeling and use in accordance with the listing and the manufacturer's instructions.

Submitter Information Verification

Submitter Full Name: Kelly Nicoletto

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Submittal Date: Tue Jan 04 14:50:08 EST 2022

Committee: LPI-AAA



Public Input No. 6-NFPA 31-2022 [Section No. D.3.2]

D.3.2 Standard Compliance.

An appliance and the burner of the appliance intended for firing an alternative (nonpetroleum) fuel should comply with the applicable requirements of UL 296, *Standard for Oil Burners*; ~~UL 296B, *Outline of Investigation for Combustion Equipment Firing Liquid Methanol as a Main Fuel*~~; ~~UL 726, *UL 726, Standard for Oil-Fired Boiler Assemblies*~~; and UL 795, *Standard for Commercial Industrial Gas-Heating Equipment*.

Statement of Problem and Substantiation for Public Input

The UL 296B Standard has been withdrawn.

Related Public Inputs for This Document

<u>Related Input</u>	<u>Relationship</u>
<u>Public Input No. 3-NFPA 31-2021 [Section No. F.1.2.7]</u>	

Submitter Information Verification

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Submittal Date: Wed Jan 05 10:11:21 EST 2022
Committee: LPI-AAA



Public Input No. 3-NFPA 31-2021 [Section No. F.1.2.7]

F.1.2.7 UL Publications.

Underwriters Laboratories Inc., 333 Pfingsten Road, Northbrook, IL 60062-2096.

UL 296, ~~Standard for Oil Burners, 2003, with revisions through February 2017~~ 2017, revised 2020 .

UL 296A, ~~Standard for Waste Oil-Burning Air Heating Appliances, 2013~~ 2018 .

UL 296B, ~~Outline of Investigation for Combustion Equipment Firing Liquid Methanol as a Main Fuel, 2006~~.

UL 647, ~~Standard for Unvented Kerosene-Fired Room Heaters and Portable Heaters, 1993~~.

UL 726, ~~Standard for Oil-Fired Boiler Assemblies, 1995~~.

UL 727, ~~Standard for Oil-Fired Central Furnaces, 2006~~ 2018 .

UL 729, ~~Standard for Oil-Fired Floor Furnaces, 2003~~, revised 2016 .

UL 730, ~~Standard for Oil-Fired Wall Furnaces, 2003~~, revised 2016 .

UL 731, ~~Standard for Oil-Fired Unit Heaters, 2018~~, revised 2021 .

UL 732, ~~Standard for Oil-Fired Storage Tank Water Heaters, 2018~~.

UL 733, ~~Standard for Oil-Fired Air Heaters and Direct-Fired Heaters, 1993~~ 2019 .

UL 795, ~~Standard for Commercial Industrial Gas-Heating Equipment, 2016~~, revised 2020 .

UL 896, ~~Standard for Oil-Burning Stoves, 1993~~, revised 2016 .

UL 1316, ~~Standard for Glass-Fiber-Reinforced Plastic Underground Storage Tanks for Petroleum Products, Alcohols, and Alcohol-Gasoline Mixtures, 2008~~ 2019 .

UL 1746, ~~Standard for External Corrosion Protection Systems for Steel Underground Storage Tanks, 2007~~, revised 2014 .

Statement of Problem and Substantiation for Public Input

Update UL edition references. UL 296B has been withdrawn by UL,

Related Public Inputs for This Document

<u>Related Input</u>	<u>Relationship</u>
Public Input No. 1-NFPA 31-2021 [Global Input]	
Public Input No. 2-NFPA 31-2021 [Section No. 2.3.5]	

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Submittal Date: Thu Dec 30 11:20:21 EST 2021

Committee: LPI-AAA