First Revision No. 52-NFPA 96-2024 [Detail]

~~12.6.1.1.2~~ 12.4.1 A grease depth gauge comb as shown in Figure ~~12.6.1.1.2~~ 12.4.1 shall be placed upon the surface to measure grease depth.

~~12.6.1.1.3~~ 12.4.2 Where a measured depth of 0.078 in. (2000 µm) is observed on a surface other than in fan housings, the surfaces shall be cleaned in accordance with 12.6.1.

~~12.6.1.1.4~~ 12.4.3 Where a measured depth of 0.125 in. (3175) µm is observed in a fan housing, the surfaces shall be cleaned in accordance with 12.6.1.

Figure ~~12.6.1.1.2~~ 12.4.1 Depth Gauge Comb

Supplemental Information

File Name	Description	Approved
NFPA_96_FR-52.docx		
96_Detail_FR-52.docx	For prod use	
96_Detail_FR-52_For_Ballot.docx		

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Mon Sep 16 09:57:58 EDT 2024

Committee Statement

Committee Statement: The requirements for grease depth have moved from the cleaning section of chapter 12 to the inspection section. Additionally, adjustments have been made to Figure 12.4.1 to show which part of the requirement is associated with the depth of the comb.

Response Message: FR-52-NFPA 96-2024

Public Input No. 11-NFPA 96-2024 [Section No. 12.6.1.1.2]

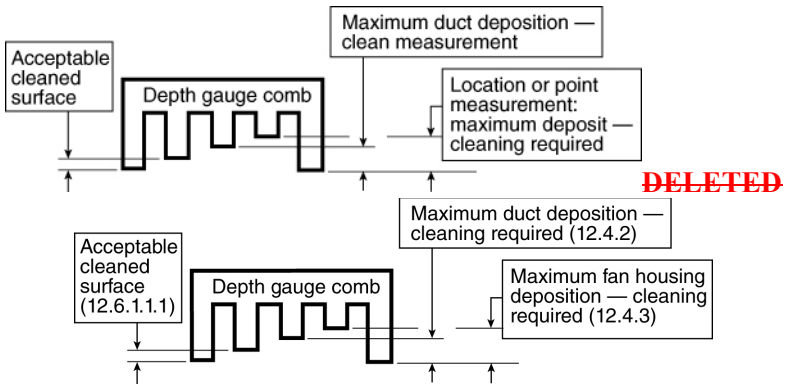
Public Input No. 9-NFPA 96-2024 [Sections 12.6.1.1.2, 12.6.1.1.3, 12.6.1.1.4]

Public Input No. 10-NFPA 96-2024 [New Section after 12.4]

12.4.1

A grease depth gauge comb, as shown in ~~Figure 12.6.1.1.2~~Figure 12.4.1, shall be placed ~~upon~~on the surface to measure grease depth.

Figure 12.4.1 Depth Gauge Comb.



12.4.2

Where a measured depth of 0.078 in. (2000 µm) is observed on a surface other than in fan housings, the surfaces shall be cleaned in accordance with 12.6.1.

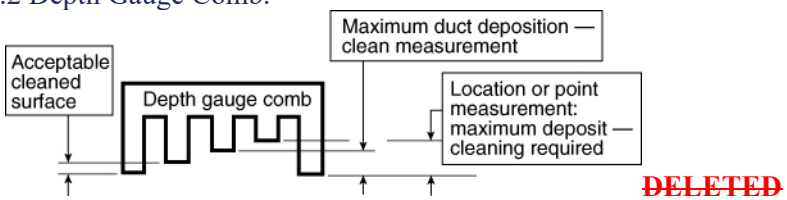
12.4.3

Where a measured depth of 0.125 in. (3175 µm) is observed in a fan housing, the surfaces shall be cleaned in accordance with 12.6.1.

~~**12.6.1.1.2**~~

~~A grease depth gauge comb as shown in Figure 12.6.1.1.2 shall be placed upon the surface to measure grease depth.~~

~~Figure 12.6.1.1.2 Depth Gauge Comb.~~



~~DELETED~~

~~**12.6.1.1.3**~~

~~Where a measured depth of 0.078 in. (2000 µm) is observed, the surfaces shall be cleaned in accordance with 12.6.1.~~

~~**12.6.1.1.4**~~

~~Where a measured depth of 0.125 in. (3175 µm) is observed in a fan housing, the surfaces shall be cleaned in accordance with 12.6.1.~~

First Revision No. 1-NFPA 96-2024 [Section No. 2.3.1]

2.3.1 ASTM Publications.

ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959.

ASTM E84, *Standard Test Method for Surface Burning Characteristics of Building Materials*, ~~2018~~ 2024 .

ASTM E119, *Standard Test Methods for Fire Tests of Building Construction and Materials*, ~~2018~~ 2024 .

ASTM E136, *Standard Test Method for Assessing Combustibility of Materials Using a Vertical Tube Furnace at 750°C*, ~~2016a~~ 2024c .

ASTM E814, *Standard Test Method for Fire Tests of Through-Penetration Fire Stops*, ~~2017~~ 2024 .

ASTM E2336, *Standard Test Methods for Fire Resistive Grease Duct Enclosure Systems*, ~~2016~~ 2020 .

ASTM E2652, *Standard Test Method for Assessing Combustibility of Materials Using a Tube Furnace with a Cone-shaped Airflow Stabilizer, at 750°C*, ~~2016~~ 2018 .

ASTM E2965, *Standard Test Method for Determination of Low Levels of Heat Release Rate for Materials and Products Using an Oxygen Consumption Calorimeter*, ~~2016~~ 2022a .

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Wed Sep 04 14:56:26 EDT 2024

Committee Statement

Committee Statement: This revision updates reference edition years.

Response Message: FR-1-NFPA 96-2024

First Revision No. 36-NFPA 96-2024 [Section No. 2.3.3]

2.3.3 UL Publications.

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

CAN/ UL 144, *Standard for Safety LP-Gas Regulators*, ~~2021~~ 2024 .

UL 197, *Commercial Electric Cooking Appliances*, 2010, revised ~~2020~~ 2023 .

UL 263, *Fire Tests of Building Construction and Materials*, 2011, revised 2022.

ANSI/CAN/UL/ULC 300, *Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment*, ~~2022~~ 2024 .

UL 499, *Electric Heating Appliances* , 2014.

UL 705, *Power Ventilators*, ~~2017~~ 2022 .

UL 710, *Exhaust Hoods for Commercial Cooking Equipment*, ~~2012, revised 2021~~ 2024 .

UL 710A, *Safety for Rooftop Grease and Oil Collection and Containment Systems*, ~~2006~~ 2015 .

UL 710B, *Recirculating Systems*, 2011, revised 2021.

UL 723, *Test for Surface Burning Characteristics of Building Materials*, ~~2022~~ 2023 .

~~UL 762, *Outline of Investigation for Power Roof Ventilators for Restaurant Exhaust Appliances* , 2013.~~

UL 1046, *Grease Filters for Exhaust Ducts*, 2010, revised 2022.

UL 1479, *Fire Tests of Through-Penetration Firestops*, 2015, revised ~~2021~~ 2024 .

UL 1484, *Residential Gas Detectors*, 2016, revised 2022.

UL 1889, *Commercial Filters for Cooking Oil* , 2024.

UL 1978, *Grease Ducts*, 2010, revised ~~2021~~ 2024 .

UL 2221, *Tests of Fire Resistive Grease Duct Enclosure Assemblies*, 2010, revised 2014 .

UL 8782, *Outline of Investigation for Pollution Control Units for Commercial Cooking Operations*, 2017.

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Tue Sep 10 07:47:50 EDT 2024

Committee Statement

Committee Statement: Update references to most current editions. UL 762 has been withdrawn. All of the applicable requirements were incorporated into UL 705.

Response Message: FR-36-NFPA 96-2024

Public Input No. 32-NFPA 96-2024 [Section No. 2.3.3]

First Revision No. 37-NFPA 96-2024 [Section No. 2.3.4]

2.3.4 ULC Publications.

~~ULC Standards, 171 Nepean Street, Suite 400, Ottawa, Ontario K2P 0B4.~~ Underwriters Laboratories of Canada, 7 Underwriters Road, Toronto, ON M1R 3A9, Canada.

ANSI/ CAN/ULC-~~S645~~ 645 , *Standard for Power Roof Ventilators for Commercial and Institutional Kitchen Exhaust Systems,*~~R2021~~ 2024 .

CAN/ULC-S646, *Standard for Exhaust Hoods and Related Controls for Commercial and Institutional Cooking Equipment,* R2021.

CAN/ULC-S649, *Standard for Grease Filters for Commercial and Institutional Kitchen Exhaust Fans,* R2021.

CAN/ULC-S662, *Standard for Factory-Built Grease Ducts,* R2021.

ANSI/CAN/UL/ULC 1254, *Pre-Engineered Dry and Wet Chemical Extinguishing System Units* , 2019, revised 2022.

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Tue Sep 10 07:49:30 EDT 2024

Committee Statement

Committee Statement: Consensus has been reached to publish a new harmonized bi-national standard. The standard retains the number for the US, however the Canadian standard has a slightly different number (omitting the “S”) as shown in the markup.

Response Message: FR-37-NFPA 96-2024

Public Input No. 33-NFPA 96-2024 [Section No. 2.3.4]

First Revision No. 2-NFPA 96-2024 [Section No. 2.3.6]

2.3.6 Other Publications.

ASME, *Boiler and Pressure Vessel Code*, ~~2021~~ 2023 .

Merriam-Webster's Collegiate Dictionary, 11th edition, Merriam-Webster, Inc., Springfield, MA, 2020.

Submitter Information Verification

Committee: VEN-AAA
Submittal Date: Wed Sep 04 15:02:24 EDT 2024

Committee Statement

Committee Statement: This revision updates reference edition years.
Response Message: FR-2-NFPA 96-2024

First Revision No. 51-NFPA 96-2024 [Section No. 2.4]

2.4 References for Extracts in Mandatory Sections.

NFPA 17A, *Standard for Wet Chemical Extinguishing Systems,* 2024 edition.

NFPA 58, *Liquefied Petroleum Gas Code,* 2024 edition.

NFPA 72®, *National Fire Alarm and Signaling Code*®, 2022 edition.

NFPA 80, *Standard for Fire Doors and Other Opening Protectives,* 2022 edition.

NFPA 101®, *Life Safety Code*®, 2024 edition.

NFPA 1192, *Standard on Recreational Vehicles,* 2021 edition.

NFPA 5000®, *Building Construction and Safety Code*®, 2024 edition.

Submitter Information Verification

Committee: VEN-AAA
Submittal Date: Fri Sep 13 15:07:02 EDT 2024

Committee Statement

Committee Statement: Added NFPA 72 with the inclusion of a new definition.
Response Message: FR-51-NFPA 96-2024

First Revision No. 20-NFPA 96-2024 [Section No. 3.3.23.2]

3.3.23.2* Solid Fuel Cooking Equipment.

~~Cooking equipment~~ Equipment that utilizes solid fuel for cooking and flavoring .

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Mon Sep 09 14:20:51 EDT 2024

Committee Statement

Committee Statement: Solid fuel cooking equipment is currently used for both cooking and flavoring, the change to the definition clarifies the use.

Response Message: FR-20-NFPA 96-2024

First Revision No. 14-NFPA 96-2024 [New Section after 3.3.24]

3.3.25 Fire Alarm System.

A system or portion of a combination system that consists of components and circuits arranged to monitor and annunciate the status of fire alarm or supervisory signal-initiating devices and to initiate the appropriate response to those signals. [**72**, 2022]

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Mon Sep 09 10:51:03 EDT 2024

Committee Statement

Committee Statement: Currently there is no definition of a Fire Alarm System in NFPA 96

Response Message: FR-14-NFPA 96-2024

Public Input No. 50-NFPA 96-2024 [Section No. 3.3]

First Revision No. 16-NFPA 96-2024 [Section No. 3.3.44]

3.3.45 Single Hazard Area.

Where two or more hazards can be simultaneously involved in fire by reason of their proximity~~, as determined by the authority having jurisdiction~~ .

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Mon Sep 09 11:01:33 EDT 2024

Committee Statement

Committee Statement: Removing the “As determined by the authority having jurisdiction” clarifies the definition. This also aligns better with the two uses of the phrase in the document.

Response Message: FR-16-NFPA 96-2024

Public Input No. 51-NFPA 96-2024 [Section No. 3.3.44]

First Revision No. 19-NFPA 96-2024 [Section No. 3.3.45]

3.3.46 Solid Cooking Fuel.

Any solid, organic, or consumable fuel ~~such as~~ for cooking or flavoring, including briquettes, mesquite, hardwood, or charcoal.

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Mon Sep 09 14:11:24 EDT 2024

Committee Statement

Committee Statement: The added language in the definition clarifies the definition to include meat smoking ovens, smokers, meat roasters, pits, and grills to solid fuel cooking appliances. The Authority Having Jurisdiction traditionally interrupts meat smoking ovens as “ovens” and not as solid fuel cooking appliances. They are installed, ventilated, and maintained as “ovens” and not as solid fuel cooking appliances. This has resulted in creosote and grease fires in meat smoking ovens.

Response Message: FR-19-NFPA 96-2024

Public Input No. 22-NFPA 96-2024 [Section No. 3.3.45]

First Revision No. 29-NFPA 96-2024 [Section No. 4.1.1.1]

4.1.1.1*

Cooking equipment that has been listed in accordance with UL 197 ~~or an equivalent standard for reduced emissions~~ and the reduced grease emissions test of UL 710B shall not be required to ~~be provided with~~ have an exhaust system.

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Mon Sep 09 16:45:40 EDT 2024

Committee Statement

Committee Statement: Improves clarity of requirements for enforcement. UL 197 does not directly contain requirements for reduced grease emissions testing. UL 197 addresses general safety, such as electrical fire and shock hazards. The reduced grease emissions test method is found in UL 710B, and is based on the EPA 202 method. As explained in Annex A4.1.1.1, the appliance listings which correlate with these requirements also require compliance with UL 197 for general safety as well as the UL 710B reduced grease emissions performance test.

Response Message: FR-29-NFPA 96-2024

Public Input No. 34-NFPA 96-2024 [Section No. 4.1.1.1]

First Revision No. 17-NFPA 96-2024 [Section No. 4.1.2]

4.1.2

All such equipment and its performance shall be maintained in accordance with the requirements of this standard and the equipment manufacturer's inspection and maintenance instructions during all periods of operation of the cooking equipment.

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Mon Sep 09 11:43:47 EDT 2024

Committee Statement

Committee Statement: Cooking equipment needs to be maintained in accordance with the standard and the inspection and maintenance requirements that the manufacturer may have.

Response Message: FR-17-NFPA 96-2024

Public Input No. 31-NFPA 96-2024 [Section No. 4.1.2]

First Revision No. 30-NFPA 96-2024 [Section No. 5.4.2]

5.4.2

Listed hood assemblies shall be tested in accordance with UL 710 or ANSI/ CAN/ULC-~~S646~~ 646 for Canada.

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Tue Sep 10 07:32:46 EDT 2024

Committee Statement

Committee Statement: Consensus has been reached to publish a new harmonized bi-national standard. The standard retains the number for the US, however the Canadian standard has a slightly different number (omitting the “S”) as shown in the markup.

Response Message: FR-30-NFPA 96-2024

Public Input No. 35-NFPA 96-2024 [Section No. 5.4.2]

First Revision No. 31-NFPA 96-2024 [Section No. 8.1.1]

8.1.1

Fans used in restaurant cooking exhaust systems shall be listed for ventilators for restaurant exhaust appliances in accordance with UL 705~~, UL 762,~~ or ANSI/ CAN/ULC~~-S645~~ 645 for Canada.

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Tue Sep 10 07:33:09 EDT 2024

Committee Statement

Committee Statement: UL 762 has been withdrawn. All of the applicable requirements were incorporated into UL 705.

Response Message: FR-31-NFPA 96-2024

Public Input No. 36-NFPA 96-2024 [Section No. 8.1.1]

First Revision No. 49-NFPA 96-2024 [Section No. 9.2.3.1]

9.2.3.1*

Lighting units in hoods shall be listed for use over commercial cooking appliances and installed in accordance with the terms of their listing.

A.9.2.3.1

These lighting units are listed in UL 1598, CSA C22.2 No. 250.0, or UL 2108. Lighting units that are evaluated for commercial cooking applications should be identified as suitable for use within a commercial cooking hood and the minimum clearance between the cooking surface and lighting unit should be specified.

9.2.3.1.1*

Broken, damaged, or missing globes or metal guards for lighting units shall be replaced.

Supplemental Information

File Name	Description	Approved
96_FR-49_9.2.3.1.docx		

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Fri Sep 13 14:15:36 EDT 2024

Committee Statement

Committee Statement: Annex note A9.2.3.1 clarifies standards and marking requirements for lighting units for use in commercial cooking hoods. This has been editorially revised to match the existing text, PI-37 was resolved.

Response Message: FR-49-NFPA 96-2024

Public Input No. 38-NFPA 96-2024 [New Section after A.9.2.3.1.1]

First Revision No. 45-NFPA 96-2024 [Section No. 9.2.4]

9.2.4* Electrically Operated Cooking Oil Equipment.

Electrical equipment used for heating cooking oil in cooking oil storage or filtering systems shall be listed for the purpose and installed in accordance with the manufacturer's installation instructions.

A.9.2.4

Cooking oil heaters are listed in UL 499. Electrically operated filter systems for cooking oil that are not integral to a cooking appliance are listed in UL 1889. Integral filter systems are addressed by the appliance listing. Filters suitable for built-in installation, side-by-side mounting, or stacking are indicated in the installation instructions for the filter.

9.2.5*

All electrical equipment shall be installed in accordance with *NFPA 70*.

Supplemental Information

File Name	Description	Approved
96_FR-45_9.2.4.docx		

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Tue Sep 10 12:12:03 EDT 2024

Committee Statement

Committee Statement: This added language addresses safety concerns with electrically operated systems for heating and filtering cooking oil. The annex note provides specific information to assist the AHJ in understanding the product standards and evaluation of various configurations of both integral and separate systems. This is consistent with NFPA 1, chapter 66 requirements related to cooking oil hazards.

Response Message: FR-45-NFPA 96-2024

Public Input No. 39-NFPA 96-2024 [Section No. 9.2.4]

First Revision No. 39-NFPA 96-2024 [Section No. 9.3.7]

9.3.7

If the heat source is non-electric and open flames are used, ~~a~~ at least one listed carbon monoxide ~~detector~~ alarm shall be installed in both the kitchen and dining areas.

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Tue Sep 10 08:35:01 EDT 2024

Committee Statement

Committee Statement: It is important to have this type of equipment to be listed. This added language also aligns with the requirement in section 17.10.1. The committee is soliciting input during the comment stage for 17.10.1 as it relates to listed carbon dioxide equipment.

Response Message: FR-39-NFPA 96-2024

First Revision No. 41-NFPA 96-2024 [Section No. 10.2.3 [Excluding any Sub-Sections]]

Automatic fire-extinguishing systems shall ~~comply~~ be listed in accordance with ~~with~~ ANSI/CAN/UL/~~ULC 300~~ ULC 1254 and ANSI/CAN/UL/ULC 300 or other equivalent standards and ~~shall be~~ installed in accordance with the requirements of the listing.

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Tue Sep 10 09:14:28 EDT 2024

Committee Statement

Committee Statement: ANSI/CAN/UL/ULC 300 only addresses fire performance requirements of the fire extinguishing system. ANSI/CAN/UL/ULC 1254 also includes requirements of fire extinguishing systems for Construction, Performance, Manufacturing and Production Tests, Packaging for Shipment, Markings, and Installation Instructions.

Response Message: FR-41-NFPA 96-2024

Public Input No. 40-NFPA 96-2024 [Section No. 10.2.3 [Excluding any Sub-Sections]]

First Revision No. 22-NFPA 96-2024 [Section No. 10.3.1.3]

~~10.3.1.3~~

~~Fume incinerators, thermal recovery units, air pollution control devices, or other devices installed in the exhaust duct shall not be required to comply with 10.3.1.1 .~~

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Mon Sep 09 14:52:51 EDT 2024

Committee Statement

Committee Statement: The requirement created a conflict with 9.3.1.1, removing section 10.3.1.3 fixes the conflict.

Response Message: FR-22-NFPA 96-2024

Public Input No. 18-NFPA 96-2024 [Section No. 10.3.1.3]

First Revision No. 15-NFPA 96-2024 [Section No. 10.6.2]

10.6.2

Where a fire alarm ~~signaling~~ system is serving the occupancy where the extinguishing system is located, the actuation of the automatic fire-extinguishing system shall actuate the fire alarm ~~signaling~~ system in accordance with the requirements of *NFPA 72*.

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Mon Sep 09 10:52:45 EDT 2024

Committee Statement

Committee Statement: This corrects inconsistencies amongst NFPA 17, 17A and 96 identifying the proper terminology for a “Fire Alarm System”

Response Message: FR-15-NFPA 96-2024

Public Input No. 52-NFPA 96-2024 [Section No. 10.6.2]

First Revision No. 23-NFPA 96-2024 [Section No. 10.9.5]

10.9.5

Portable fire extinguishers shall be inspected, tested, and maintained in accordance with NFPA 10.

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Mon Sep 09 15:34:18 EDT 2024

Committee Statement

Committee Statement: Paragraph 10.9.1 covers the selection and installation of extinguishers. Paragraph 10.9.5 should cover the upkeep of extinguishers which includes inspection, maintenance and testing portable fire extinguishers.

Response Message: FR-23-NFPA 96-2024

Public Input No. 29-NFPA 96-2024 [Section No. 10.9.5]

First Revision No. 24-NFPA 96-2024 [Section No. 11.2.1]

11.2.1

Fire-extinguishing equipment shall include automatic fire-extinguishing systems as the primary form of protection and portable fire extinguishers as a secondary form of protection.

11.2.2*

A placard shall be conspicuously placed near each Class K extinguisher that states that the fire protection system shall be activated prior to using the fire extinguisher.

11.2.2.1

The language and wording for the placard shall be approved by the authority having jurisdiction.

Supplemental Information

File Name	Description	Approved
96_FR-24_11.2.1.docx		

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Mon Sep 09 15:43:44 EDT 2024

Committee Statement

Committee Statement: This requirement is reiterated from section 10.2.1 and clarifies the need for both primary and secondary fire-extinguishing equipment for mobile an temporary cooking operations just as it is for the permanent structures as specified in 10.2.1.

Response Message: FR-24-NFPA 96-2024

Public Input No. 27-NFPA 96-2024 [Section No. 11.2.1]

First Revision No. 25-NFPA 96-2024 [Sections 11.4.1.1, 11.4.1.2, 11.4.1.3]

11.4.1.1*

At least one manual ~~actuation device~~ actuator shall be located in a means of egress or at a location acceptable to the authority having jurisdiction.

11.4.1.2

The manual ~~actuation device~~ actuator shall clearly identify the hazard protected and be provided with instructions for its use.

11.4.1.3*

Manual ~~actuation devices~~ actuators installed in locations where accidental operation could occur shall be provided with a guard where required by the authority having jurisdiction.

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Mon Sep 09 15:44:54 EDT 2024

Committee Statement

Committee Statement: This is an editorial update for mobile and temporary cooking operations to match current language found for the permanent structures as specified in paragraphs 10.5.1.1, 10.5.1.2, and 10.5.1.3.

Response Message: FR-25-NFPA 96-2024

Public Input No. 28-NFPA 96-2024 [Sections 11.4.1.1, 11.4.1.2, 11.4.1.3]

First Revision No. 26-NFPA 96-2024 [Section No. 12.2.2]

12.2.2*

All actuation and control components, including remote manual pull stations, mechanical and electrical devices, detectors, and actuators, shall be tested for proper operation during the inspection in accordance with the manufacturer's procedures.

12.2.2.1

Where the fire-extinguishing system is connected to a building fire alarm system, proper functioning of the system shall be verified in accordance with *NFPA 72* .

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Mon Sep 09 15:47:15 EDT 2024

Committee Statement

Committee Statement: The connection to the building fire alarm system is a requirement of NFPA 96, Chapter 10 Fire-Extinguishing Equipment for Cooking Operations in Buildings, Section 10.6.2 and should be verified when performing maintenance.

Response Message: FR-26-NFPA 96-2024

Public Input No. 54-NFPA 96-2024 [Section No. 12.2.2]

First Revision No. 27-NFPA 96-2024 [Section No. 12.6.4]

12.6.4

Components of the fire- ~~suppression~~ extinguishing system shall not be rendered inoperable during the cleaning process except as permitted by 12.6.5 .

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Mon Sep 09 16:08:05 EDT 2024

Committee Statement

Committee Statement: Edited language for the terminology of "fire-extinguishing system" and clarification of provisions for permitting the fire-extinguishing system to be rendered inoperable during the cleaning process where serviced by properly trained and qualified persons allowed by the language in section 12.6.5.

Response Message: FR-27-NFPA 96-2024

Public Input No. 30-NFPA 96-2024 [Section No. 12.6.4]

First Revision No. 10-NFPA 96-2024 [Section No. 12.6.9]

12.6.9

~~When cleaning procedures are completed~~ Upon completion of exhaust system inspection or cleaning , all access panels (doors) and cover plates shall be restored to their normal operational condition.

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Mon Sep 09 10:14:01 EDT 2024

Committee Statement

Committee Statement: Access panels should be restored to their normal condition whenever they are removed.

Response Message: FR-10-NFPA 96-2024

Public Input No. 12-NFPA 96-2024 [Section No. 12.6.9]

First Revision No. 11-NFPA 96-2024 [Section No. 12.6.10]

12.6.10

When an access panel is removed and reinstalled , a service company label or tag preprinted with the name of the company and giving the date of inspection or cleaning shall be affixed near the affected access panels.

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Mon Sep 09 10:14:48 EDT 2024

Committee Statement

Committee Statement: The label is installed after the access panels are reinstalled.

Response Message: FR-11-NFPA 96-2024

Public Input No. 13-NFPA 96-2024 [Section No. 12.6.10]

First Revision No. 12-NFPA 96-2024 [Section No. 12.6.12]

12.6.12

~~When cleaning procedures are completed~~ Upon completion of exhaust system inspection or cleaning , all electrical switches and system components shall be returned to an operable state.

Submitter Information Verification

Committee: VEN-AAA
Submittal Date: Mon Sep 09 10:15:35 EDT 2024

Committee Statement

Committee Statement: This paragraph also applies to inspections where switches are operated.
Response Message: FR-12-NFPA 96-2024

Public Input No. 14-NFPA 96-2024 [Section No. 12.6.12]

First Revision No. 13-NFPA 96-2024 [New Section after 12.6.17]

12.6.17.1

Metal containers used to collect grease drippings that are missing, broken, distorted, or leaking shall be replaced.

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Mon Sep 09 10:17:23 EDT 2024

Committee Statement

Committee Statement: Paragraph 12.6.18 requires replacement of damaged filters. This paragraph is similar as it requires replacement of missing and damaged grease cups.

Response Message: FR-13-NFPA 96-2024

Public Input No. 15-NFPA 96-2024 [New Section after 12.6.17]

First Revision No. 32-NFPA 96-2024 [Section No. 14.2.4]

14.2.4

Recirculating systems shall be listed ~~with a testing laboratory~~ in accordance with UL 710B.

14.2.4.1

The recirculating system listing shall include integral fire protection for recirculating hoods, including canopy type hoods .

14.2.4.2

Cooking appliances that require protection and ~~that~~ are under a recirculating hood shall be protected by either the integral fire protection system in accordance with UL 710B~~,~~ or a system in accordance with Chapter 10.

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Tue Sep 10 07:33:36 EDT 2024

Committee Statement

Committee Statement: The adjusted language removes the qualifier of “with a testing laboratory” because it is unnecessary. The definition of “listed” already identifies what types of organizations are approved to perform the product listing evaluation.

Response Message: FR-32-NFPA 96-2024

Public Input No. 44-NFPA 96-2024 [Section No. 14.2.4]

First Revision No. 33-NFPA 96-2024 [Section No. 15.3.1]

15.3.1*

Hoods shall be sized and located in a manner capable of capturing and containing all the effluent discharging from the appliances.

A.15.3.1

Solid fuel ovens listed in accordance with UL 2162 and vented in accordance with the manufacturer's instructions are not required to have a hood.

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Tue Sep 10 07:34:58 EDT 2024

Committee Statement

Committee Statement: Corresponds with listing requirements and the exception in 507.1 of 2024 edition of IMC.

Response Message: FR-33-NFPA 96-2024

Public Input No. 48-NFPA 96-2024 [Section No. 15.3.1]

First Revision No. 21-NFPA 96-2024 [Section No. 15.8 [Excluding any Sub-Sections]]

~~Solid fuel cooking appliances shall be inspected, cleaned, and maintained in accordance with the procedures outlined in Chapter 12 and with 15.8.1 through 15.8.5 .~~

Supplemental Information

File Name	Description	Approved
96_FR-21_Section_15.8.docx		

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Mon Sep 09 14:28:29 EDT 2024

Committee Statement

Committee Statement: With the revised definition in FR-20, the language in this section has been changed to be more applicable to the definition.

Response Message: FR-21-NFPA 96-2024

Public Input No. 25-NFPA 96-2024 [Section No. 15.8 [Excluding any Sub-Sections]]

First Revision No. 40-NFPA 96-2024 [Section No. 17.10.1]

17.10.1

If the heat source is ~~nonelectric~~ non-electric and open flames are used, at least one listed carbon monoxide ~~detector~~ alarm shall be installed in the kitchen area .

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Tue Sep 10 09:01:39 EDT 2024

Committee Statement

Committee Statement: It is important to have this type of equipment to be listed. This added language also aligns with the requirement in section 9.3.7.

Response Message: FR-40-NFPA 96-2024

First Revision No. 43-NFPA 96-2024 [Section No. A.4.1.5.2]

A.4.1.5.2

~~A service contractor with only periodic~~ Entities with limited access to the equipment, such as the exhaust system cleaner and fire extinguishing system contractor, ~~does~~ do not assume this responsibility.

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Tue Sep 10 10:02:37 EDT 2024

Committee Statement

Committee Statement: There are other entities besides service contractors including appliance cleaners, electricians, and plumbers. The word "limited" is a better word than "periodic".

Response Message: FR-43-NFPA 96-2024

First Revision No. 44-NFPA 96-2024 [Section No. A.12.6.1]

A.12.6.1

ANSI/IKECA C10 provides guidance for cleaning the exhaust system.

A good operating practice is for cleaning personnel of commercial kitchen exhaust systems to have personal protective equipment (PPE) and height access equipment. The following items should be considered as a minimum:

(1) Eye protection

(2) Hand protection

(3) Head protection

(4) Foot protection

(5) Respiratory protection

(6) Fall protection

(7) Ladders

(8) Lock-out/tag-out kit

Preparation. The fan should be turned off, locked out, and tagged out. Open flames should be extinguished, and switches/breakers serving the appliance and cooking area outlets should be locked out. If the switches/breakers are not capable of being locked out and tagged out, any solid-fuel cooking appliances should be extinguished and the solid fuel removed.

Removal or Covering of Equipment. Food products, cookware, and cooking support equipment that can be removed should be removed from the cleaning area. Equipment that cannot be removed should be covered.

Cleaning Methods. The following methods for cleaning surfaces covered with grease and contaminants have been proved to be effective:

(1) Manual cleaning by scraping, grinding, or scrubbing

(2) Chemical cleaning with agents and water

(3) Pressure washing with pressurized water or pressurized water and agents

(4) Steam cleaning with pressurized steam

Waste Water and Solid Waste. Water and agents used in the cleaning process and solid waste should be collected for disposal.

ANSI/IKECA M10 provides guidance for maintaining the exhaust system.

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Tue Sep 10 11:38:49 EDT 2024

Committee Statement

Committee Statement: The inclusion of ANSI/IKECA M10 provides more information for the user for maintenance of the exhaust system.

Response Message:	FR-44-NFPA 96-2024

First Revision No. 42-NFPA 96-2024 [Section No. A.13.1.1]

A.13.1.1

Cooking appliances that are designed for permanent installation, including, but not limited to, ranges, ovens, stoves, broilers, grills, fryers, griddles, and barbecues, should be installed in accordance with the manufacturer's installation instructions~~.~~ , as well as the following:

(1) Commercial electric cooking appliances should be listed and labeled in accordance with UL 197.

(2) Microwave cooking appliances should be listed and labeled in accordance with UL 923.

(3) Oil-burning stoves should be listed and labeled in accordance with UL 896.

(4) Wood-fired cooking appliances should be listed and labeled in accordance with ~~UL 737 or~~ UL 2162, depending on the exact appliance type.

(5) Gas-fired cooking appliances should be listed and labeled in accordance with ANSI Z83.11.

(6) Gas-wood-fired cooking appliances should be listed and labeled in accordance with ANSI Z83.11~~, UL 737,~~ and/or UL 2162, depending on the exact appliance type.

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Tue Sep 10 09:26:13 EDT 2024

Committee Statement

Committee Statement: The reference to UL 737 is incorrect, as the scope of UL 737 is limited to residential heating stoves which are not intended for commercial cooking applications.

Response Message: FR-42-NFPA 96-2024

Public Input No. 42-NFPA 96-2024 [Section No. A.13.1.1]

First Revision No. 35-NFPA 96-2024 [Section No. A.13.1.2.1]

A.13.1.2.1

Gas-fueled appliances should be installed to the requirements of NFPA 54 or NFPA 58. Electric appliances should be installed to the requirements of *NFPA 70* . Solid-fuel-fired appliances should be installed to the requirements of NFPA 211 .

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Tue Sep 10 07:42:34 EDT 2024

Committee Statement

Committee Statement: Expands the annex note to cover electric and solid-fuel appliances in addition to gas.

Response Message: FR-35-NFPA 96-2024

Public Input No. 43-NFPA 96-2024 [Section No. A.13.1.2.1]

First Revision No. 3-NFPA 96-2024 [Section No. B.1.2.1]

B.1.2.1 ANSI Publications.

American National Standards Institute, Inc., ~~25 West 43rd Street, 4th~~ 1180 Avenue of the Americas, 10th Floor, New York, NY 10036.

ANSI Z83.11, *Gas Food Service Equipment*, ~~2006~~ 2016 (reaffirmed ~~2011~~ 2021).

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Wed Sep 04 15:04:16 EDT 2024

Committee Statement

Committee Statement: This revision updates reference edition years.

Response Message: FR-3-NFPA 96-2024

First Revision No. 4-NFPA 96-2024 [Section No. B.1.2.2]

B.1.2.2 ASHRAE Publications.

ASHRAE, 180 Technology Parkway, Peachtree Corners, GA 30092.

Kuehn, T. H., et al., “Effects of air velocity on grease deposition in exhaust ductwork,” ASHRAE Research Project 1033-RP Final Report. Minneapolis: University of Minnesota, 2006.

ANSI/ASHRAE 154, *Ventilation for Commercial Cooking Operations*, ~~2011~~ 2016 .

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Wed Sep 04 15:05:56 EDT 2024

Committee Statement

Committee Statement: This revision updates reference edition years.

Response Message: FR-4-NFPA 96-2024

First Revision No. 47-NFPA 96-2024 [New Section after B.1.2.3]

B.1.2.4 CSA Group Publications.

CSA Group, 178 Rexdale Blvd., Toronto, ON M9W 1R3, Canada.

CSA C22.2 No 250.0, *Luminaires* , revised 2024.

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Fri Sep 13 11:26:23 EDT 2024

Committee Statement

Committee Statement: Creating a new section in Annex B for the inclusion of CSA standards. See FR-38

Response Message: FR-47-NFPA 96-2024

Public Input No. 46-NFPA 96-2024 [Section No. B.1.2]

First Revision No. 48-NFPA 96-2024 [Section No. B.1.2.3]

B.1.2.3 ASTM Publications.

ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959.

ASTM E136, *Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750ºC*, ~~2016a~~ 2024 .

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Fri Sep 13 11:29:10 EDT 2024

Committee Statement

Committee Statement: This revision updates reference edition years.

Response Message: FR-48-NFPA 96-2024

First Revision No. 6-NFPA 96-2024 [Section No. B.1.2.5]

B.1.2.6 GA Publications.

Gypsum Association, 962 Wayne Avenue, Suite 620, Silver Spring, MD 20910.

Fire Resistance and Sound Control Design Manual, ~~2012~~ 2021 .

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Wed Sep 04 15:07:48 EDT 2024

Committee Statement

Committee Statement: This revision updates reference edition years and title.

Response Message: FR-6-NFPA 96-2024

First Revision No. 7-NFPA 96-2024 [Section No. B.1.2.6]

B.1.2.7 IKECA Publications.

International Kitchen Exhaust Cleaning Association, 2331 Rock Spring Road, Forest Hill, MD 21050.

ANSI/IKECA C10, *Standard for the Methodology for Cleaning Commercial Kitchen Exhaust Systems*, ~~2016~~ 2021 .

ANSI/IKECA I10, *Standard for the Methodology for Inspection of Commercial Kitchen Exhaust Systems,*~~2015~~ 2020 .

ANSI/IKECA M10, *Standard for the Methodology for Maintenance of Commercial Kitchen Exhaust Systems* , 2023.

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Wed Sep 04 15:12:26 EDT 2024

Committee Statement

Committee Statement: This revision updates reference edition years.

Response Message: FR-7-NFPA 96-2024

First Revision No. 8-NFPA 96-2024 [Section No. B.1.2.7]

B.1.2.8 NSF International Publications.

NSF International, P.O. Box 130140, 789 N. Dixboro Road, Ann Arbor, MI 48105.

NSF/ANSI 2, *Food Equipment*, ~~2014~~ 2022 .

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Wed Sep 04 15:13:56 EDT 2024

Committee Statement

Committee Statement: This revision updates reference edition years.

Response Message: FR-8-NFPA 96-2024

First Revision No. 46-NFPA 96-2024 [Section No. B.1.2.8]

B.1.2.9 UL Publications.

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

UL 197, *Commercial Electric Cooking Appliances*, 2010, revised ~~2020~~ 2023 .

ANSI/CAN/UL/ULC 199, *Automatic Sprinklers for Fire-Protection Service*, 2022, revised 2024 .

UL 199B, *Outline of Investigation for Automatic Sprinkler Systems Used for Protection of Commercial Cooking Equipment*, 2015.

UL 199E, *Outline of Investigation for Fire Testing of Sprinklers and Water Spray Nozzles for Protection of Deep Fat Fryers*, 2004.

ANSI/CAN/UL/ULC 300, *Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment*, ~~2022~~ 2024 .

UL 710B, *Recirculating Systems*, 2011, revised 2021.

~~UL 737, *Fireplace Stoves* , 2011, revised 2020.~~

UL 896, *Oil-Burning Stoves*, 1993, revised 2022.

UL 923, *Microwave Cooking Appliances*, 2013, revised ~~2020~~ 2024 .

UL 1046, *Grease Filters for Exhaust Ducts*, 2010, revised 2022.

UL 1598, *Luminaires* , 2021, revised 2024

UL 2108, *Low Voltage Lighting Systems* , 2015, revised 2023

UL 2162, *Commercial Wood-Fired Baking Ovens — Refractory Type*, 2014, revised 2019.

UL 8782, *Outline of Investigation for Pollution Control Units for Commercial Cooking Operations*, 2017.

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Tue Sep 10 12:21:40 EDT 2024

Committee Statement

Committee Statement: Update references to most current editions. UL 737 is incorrect, as the scope of UL 737 is limited to residential heating stoves which are not intended for commercial cooking applications. Included UL 1598 and UL 2108 per FR-38.

Response Message: FR-46-NFPA 96-2024

Public Input No. 45-NFPA 96-2024 [Section No. B.1.2.8]

First Revision No. 50-NFPA 96-2024 [Section No. B.3]

B.3 References for Extracts in Informational Sections.

NFPA 17A, *Standard for Wet Chemical Extinguishing Systems*, ~~2021~~ 2024 edition.

NFPA 58, *Liquefied Petroleum Gas Code*, ~~2020~~ 2024 edition.

NFPA 5000®, *Building Construction and Safety Code*®, ~~2021~~ 2024 edition.

Submitter Information Verification

Committee: VEN-AAA

Submittal Date: Fri Sep 13 15:04:52 EDT 2024

Committee Statement

Committee Statement: This revision updates extracted text in accordance with the Extract Policy. For substantiation on any changes, see the first and second draft reports for the source document.

Response Message: FR-50-NFPA 96-2024