

# NFPA 96, Standard for Ventilation Control & Fire Protection of Commercial Cooking Operations

## 2024 vs. 2021 Edition Changes

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### Chapter 3: Definitions

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| <b>3.3.12* Clean(ing).</b> For kitchen exhaust systems and cooking equipment, the act of removing grease, oil deposits, <b>combustible creosote</b> , and other residue. | <b>3.3.12 Clean(ing).</b> For kitchen exhaust systems and cooking equipment, the act of removing grease, oil deposits, and other residue. |
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### Chapter 4: General Requirements for Cooking Operations in Buildings and Mobile and Temporary Cooking Operations

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| <p><b>4.1 General.</b></p> <p><b>N 4.1.1.3</b> Recirculating systems listed in accordance with UL 710B shall not be required to be provided with an exhaust system.</p> <p><b>Δ 4.1.5 Responsibility.</b></p> <p><b>N 4.1.5.1*</b> The responsibility for inspection, testing, maintenance, and cleanliness of the ventilation control, fire protection, and cooking appliances of the commercial cooking operations shall be that of the equipment owner.</p> <p><b>N 4.1.5.2*</b> Where the equipment owner is not the commercial cooking operator, the equipment owner shall be permitted to delegate the authority and responsibility for inspection, testing, maintenance, and cleanliness of the ventilation control, fire protection, and cooking appliances to the commercial cooking operator, management firm, or managing individual through specific provisions in the lease, written use agreement, or management contract.</p> | <p><b>4.1 General.</b></p> <p><b>4.1.5*</b> The responsibility for inspection, testing, maintenance, and cleanliness of the ventilation control and fire protection of the commercial cooking operations, including cooking appliances, shall ultimately be that of the owner of the system, pro-vided that this responsibility has not been transferred in written form to a management company, tenant, or other party.</p> |
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### Chapter 4: Cont.

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| <p><b>N 4.9 Grease-Contaminated Cloths.</b></p> <p><b>N 4.9.1 Oily Waste Containers.</b><br/>Listed or approved containers with self-closing lids shall be provided for the storage and disposal of grease-contaminated cloths or waste.</p> <p><b>N 4.9.2 On-Premises Laundering of Grease-Contaminated Cloths.</b></p> <p><b>N 4.9.2.1</b> Laundering equipment shall be listed or approved for the cleaning of grease-contaminated cloths.</p> <p><b>N 4.9.2.2</b> Only approved water detergents or solutions shall be used to launder grease-contaminated cloths.</p> <p><b>N 4.9.2.3</b> Laundering equipment shall be operated and maintained according to the manufacturer's instructions.</p> |  |
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### Chapter 8: Air Movement

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| <p><b>8.1 Exhaust Fans for Commercial Cooking Operations.</b></p> <p><b>8.1.1</b> Fans used in restaurant cooking exhaust systems shall be listed for ventilators for restaurant exhaust appliances in accordance with UL 705, UL 762, or CAN/ULC-S645 for Canada.</p> | <p><b>8.1 Exhaust Fans for Commercial Cooking Operations.</b></p> <p><b>8.1.1</b> Fans used in exhaust systems for commercial cooking shall be listed in accordance with UL 762 or CAN/ULC-S645 for Canada.</p> |
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### Chapter 9: Auxiliary Equipment

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| <p><b>9.3 Other Equipment.</b></p> <p><b>Δ 9.3.1.1</b> Fume incinerators, thermal recovery units, air pollution control devices, and/or other devices installed in ducts or hoods shall comply with the following:</p> <ol style="list-style-type: none"> <li>(1) The clearance requirements of Section 4.2</li> <li>(2) Hood construction requirements in Section 5.1</li> <li>(3) Exhaust duct construction requirements in Chapter 7</li> <li>(4) The simultaneous operation requirements in 10.3.1 for other equipment installed in a hood</li> <li>(5) The requirements of 10.1.3 for other equipment installed in a duct</li> <li>(6) Chapter 7 requirements for access panels or doors</li> <li>(7) Paragraph 8.1.3.1 for in-line fans</li> <li>(8) For pollution control units, the listing requirements of UL 8782 and the manufacturer's installation instructions</li> </ol> | <p><b>9.3 Other Equipment.</b></p> <p><b>9.3.1.1</b> Fume incinerators, thermal recovery units, air pollution control devices, and/or other devices installed in ducts or hoods shall comply with the following:</p> <ol style="list-style-type: none"> <li>(1) The clearance requirements of Section 4.2.</li> <li>(2) Hood construction requirements in Section 5.1.</li> <li>(3) Exhaust duct construction complying with Chapter 7.</li> <li>(4) Other equipment installed in a hood shall meet the simultaneous operation requirements in 10.3.1.</li> <li>(5) Other equipment installed in a duct complying with 10.1.3.</li> <li>(6) Access panels or doors complying with Chapter 7.</li> <li>(7) In-line fans complying with 8.1.3.1.</li> </ol> |
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### Chapter 10: Fire-Extinguishing Equipment for Cooking Operations in Buildings

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| <p><b>10.2 Types of Equipment.</b></p> <p><b>10.2.3*</b> Automatic fire-extinguishing systems shall comply with ANSI/CAN/UL/ULC 300 or other equivalent standards and shall be installed in accordance with the requirements of the listing.</p> | <p><b>10.2 Types of Equipment</b></p> <p><b>10.2.3*</b> Automatic fire-extinguishing systems shall comply with UL 300 or other equivalent standards and shall be installed in accordance with the requirements of the listing.</p> |
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| <p><b>10.2.3.1*</b> In existing dry or wet chemical systems not in compliance with ANSI/CAN/UL/ULC 300, the fire-extinguishing system shall be made to comply with 10.2.3 when any of the following occurs:</p> <ul style="list-style-type: none"> <li>(1) The cooking medium is changed from animal oils and fats to vegetable oils.</li> <li>(2) The positioning of the cooking equipment is changed.</li> <li>(3) Cooking equipment is replaced.</li> <li>(4) The equipment is no longer supported by the manufacturer.</li> </ul> <p><b>10.2.6</b> Automatic fire-extinguishing systems shall be installed in accordance with the terms of their listing, the manufacturer's instructions, and the following standards where applicable:</p> <ul style="list-style-type: none"> <li>(1) NFPA 12</li> <li>(2) NFPA 13</li> <li>(3) NFPA 15</li> <li>(4) NFPA 17A</li> <li>(5) NFPA 750</li> <li>(6) NFPA 770</li> </ul> <p><b>10.2.7 Modifications to Existing Hood Systems.</b></p> <p><b>10.2.7.4</b> Changes or modifications to the hazard area including cooking appliances after installation of the fire-extinguishing systems shall result in re-evaluation of the system design by a properly trained, qualified, and certified person(s).</p> | <p><b>10.2.3.1*</b> In existing dry or wet chemical systems not in compliance with UL 300, the fire-extinguishing system shall be made to comply with 10.2.3 when any of the following occurs:</p> <ul style="list-style-type: none"> <li>(1) The cooking medium is changed from animal oils and fats to vegetable oils.</li> <li>(2) The positioning of the cooking equipment is changed.</li> <li>(3) Cooking equipment is replaced.</li> <li>(4) The equipment is no longer supported by the manufacturer.</li> </ul> <p><b>10.2.6</b> Automatic fire-extinguishing systems shall be installed in accordance with the terms of their listing, the manufacturer's instructions, and the following standards where applicable:</p> <ul style="list-style-type: none"> <li>(1) NFPA 12</li> <li>(2) NFPA 13</li> <li>(3) NFPA 17</li> <li>(4) NFPA 17A</li> <li>(5) NFPA 750</li> </ul> <p><b>10.2.7 Modifications to Existing Hood Systems.</b></p> <p><b>10.2.7.4</b> Changes or modifications to the hazard after installation of the fire-extinguishing systems shall result in re-evaluation of the system design by a properly trained, qualified, and certified person(s).</p> |
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| <p><b>10.5 Manual Actuation.</b></p> <p><b>10.5.1.1*</b> At least one manual actuator shall be located in a means of egress or at a location acceptable to the authority having jurisdiction.</p> <p><b>10.5.1.2</b> The manual actuator shall clearly identify the hazard protected and be provided with instructions for its use.</p> <p><b>10.5.1.3*</b> Manual actuators installed in locations where accidental operation could occur shall be provided with a guard where required by the authority having jurisdiction.</p> | <p><b>10.5 Manual Actuation.</b></p> <p><b>10.5.1.1*</b> At least one manual actuation device shall be located in a means of egress or at a location acceptable to the authority having jurisdiction.</p> <p><b>10.5.1.2</b> The manual actuation device shall clearly identify the hazard protected and be provided with instructions for its use.</p> <p><b>10.5.1.3*</b> Manual actuation devices installed in locations where accidental operation could occur shall be provided with a guard where required by the authority having jurisdiction.</p> |
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### Chapter 11: Fire-Extinguishing Equipment for Mobile and Temporary Cooking Operations

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| <p><b>11.2 Types of Equipment</b></p> <p><b>11.2.2*</b> Automatic fire-extinguishing systems shall comply with ANSI/CAN/UL/ULC 300 or other equivalent standards and shall be installed in accordance with the terms of their listing and NFPA 17A.</p> | <p><b>11.2 Types of Equipment.</b></p> <p><b>11.2.2*</b> Automatic fire-extinguishing systems shall comply with UL 300 or other equivalent standards and shall be installed in accordance with the terms of their listing and NFPA 17A.</p> |
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### Chapter 12: Procedures for the Use, Inspection, Testing, and Maintenance of Equipment

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| <p><b>12.2 Inspection, Testing, and Maintenance of Fire-Extinguishing Systems.</b></p> <ul style="list-style-type: none"> <li>• (Section Deleted)</li> </ul> <p><b>N 12.2.5*</b> Replacement fixed temperature-sensing elements shall be listed and shall be the same temperature ratings as the ones being replaced unless temperature readings dictate a need for a change. [17A:8.3.4.1]</p> | <p><b>12.2 Inspection, Testing, and Maintenance of Fire-Extinguishing Systems.</b></p> <p><b>12.2.1.1</b> The requirement of 12.2.1 shall not apply to mobile and temporary cooking operations.</p> |
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| <p><b>12.3 Inspection of Fire Dampers</b></p> <p><b>Δ 12.3.1</b> The requirements in Section 12.3 shall not apply to mobile and temporary cooking operations.</p> <p><b>12.6 Cleaning of Exhaust Systems.</b></p> <p><b>12.6.13</b> After an exhaust system is inspected or cleaned, an adhesive label shall be securely attached to the hood.</p> <p><b>N 12.6.13.1</b> The label required by 12.6.13 shall provide a record of the following information:</p> <ul style="list-style-type: none"> <li>(1) *Date service was performed indicated by a perforation</li> <li>(2) Name of person performing the work</li> <li>(3) Name, address, and phone number of service provider</li> </ul> <p><b>N 12.6.13.2</b> The label required by 12.6.13 shall remain affixed until the next inspection or cleaning event.</p> <p><b>N 12.6.14</b> After an inspection for grease buildup is complete, a written report shall be provided to the system owner or owner's agent (see 4.1.5) within 2 weeks.</p> <p><b>N 12.6.14.1</b> The report required by 12.6.14 shall provide a record of the following information:</p> <ul style="list-style-type: none"> <li>(1) Areas in need of cleaning where grease is found to exceed the limits specified in 12.6.1</li> <li>(2) Areas that are inaccessible and were not inspected</li> </ul> | <p><b>12.3 Inspection of Fire Dampers.</b></p> <p><b>12.3.1</b> The requirements in Section 12.3 shall not apply to mobile and temporary cooking operations.</p> <p><b>12.6 Cleaning of Exhaust Systems.</b></p> <p><b>12.6.13</b> When an exhaust system is inspected or cleaned, a certificate showing the name of the servicing company, the name of the person performing the work, and the date of inspection or cleaning shall be maintained on the premises.</p> |
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| <p><b>N 12.6.14.1</b></p> <ul style="list-style-type: none"> <li>(3) Areas that are accessible but were not inspected</li> <li>(4) Location(s) of duct access panel(s)</li> <li>(5) Location(s) of visible leakage(s) from ductwork</li> <li>(6) Location(s) of leaking access panel(s)</li> </ul> <p><b>12.6.15</b> After cleaning is complete, a written report shall be provided to the system owner or owner's agent (see 4.1.5) within 2 weeks.</p> <p><b>N 12.6.15.1</b> The report required by 12.6.15 shall provide a record of the following information:</p> <ul style="list-style-type: none"> <li>(1) Date cleaning was performed</li> <li>(2) Name of person who performed the cleaning</li> <li>(3) Name, address, and phone number of service provider</li> </ul> <p><b>N 12.6.15.2</b> The report required by 12.6.15 shall detail the following information:</p> <ul style="list-style-type: none"> <li>(1) Areas that are inaccessible and were not cleaned</li> <li>(2) Areas that are accessible but were not cleaned</li> <li>(3) Location(s) of duct access panel(s)</li> <li>(4) Location(s) of visible leakage(s) from ductwork</li> <li>(5) Location(s) of leaking access panel(s)</li> </ul> <p><b>N 12.6.16</b> Where required, the reports required by 12.6.14 and 12.6.15 shall be submitted to the authority having jurisdiction.</p> | <p><b>12.6.15</b> Where required, certificates of inspection and cleaning and reports of areas not cleaned shall be submitted to the authority having jurisdiction.</p> |
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| <p><b>N 12.6.17</b> Metal containers used to collect grease drippings shall be inspected or emptied at least weekly.</p> <p><b>N 12.6.18</b> Grease removal devices that are broken, distorted, or missing components shall be replaced.</p> |  |
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### Chapter 15: Solid Fuel Cooking Operations

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| <p><b>Δ 15.7.4</b> Solid fuel cooking appliances constructed of solid masonry or reinforced portland or refractory cement concrete and vented in accordance with NFPA 211 <u>shall require</u> automatic fire-extinguishing equipment for the protection of grease removal devices, hoods, and duct systems.</p> | <p><b>15.7.4</b> Where acceptable to the authority having jurisdiction, solid fuel cooking appliances constructed of solid masonry or reinforced portland or refractory cement concrete and vented in accordance with NFPA 211 <u>shall not require</u> automatic fire-extinguishing equipment for the protection of grease removal devices, hoods, and duct systems.</p> |
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### Δ Chapter 17: Mobile and Temporary Cooking Operations

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| <p><b>17.1 General.</b></p> <p><b>17.2.1* Relative to Buildings.</b> Mobile or temporary cooking operations shall be separated from the entrances and other exits of buildings or structures, combustible materials, vehicles, and other cooking operations by a clear space distance of 10 ft (3 m) <u>or as prescribed by the AHJ.</u></p> <p><b>Δ 17.4 Appliance Installation on Vehicles.</b></p> <p><b>N 17.5 LP-Gas Cooking Appliances.</b></p> <p><b>N 17.5.6 Appliance Caution Plate</b></p> | <p><b>17.1 General.</b></p> <p><b>17.2.1 Relative to Buildings.</b> Mobile or temporary cooking operations shall be separated from the entrances and other exits of buildings or structures, combustible materials, vehicles and other cooking operations by a clear space distance of 10 ft (3 m).</p> |
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| <p><b>17.6 Internal Combustion Engine Power Sources</b></p> <p><b>Δ 17.6.2.3</b> Internal combustion engine power sources shall be positioned so that the exhaust complies with the following:</p> <ul style="list-style-type: none"> <li>(1) Located at least 12 ft (4 m) from openings, air intakes, and means of egress</li> <li>(2) In a position pointed away from any building</li> <li>(3) In a position pointed away from any mobile or temporary cooking operations</li> </ul> <p><b>17.8 LP-Gas Systems.</b></p> <p><b>17.8.1.1</b> LP-Gas cylinders shall be secured so that the relief valve is in communication with the vapor space of the cylinder.</p> <p><b>17.8.2 LP-Gas System Leak Detection.</b></p> <ul style="list-style-type: none"> <li>• (Section Deleted)</li> </ul> <p><b>N 17.8.2.3*</b> LP-Gas systems shall be visually inspected daily for damage and proper operation prior to each use.</p> <p><b>N 17.8.2.4</b> Where problems are detected, the system shall not be used until immediate corrective action is taken.</p> <p><b>N 17.8.3 Leakage Testing of LP-Gas Systems.</b></p> <p><b>N 17.8.3.1</b> Where leakage is indicated, the gas supply shall be shut off immediately.</p> <p><b>N 17.8.3.2</b> Once the gas supply is shut off, the gas supply shall not be restored until the necessary repairs have been made and the piping system retested.</p> |              |

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| <p><b>N 17.8.3.3</b> Cylinder connections shall be tested for leakage with a noncorrosive leak-detecting fluid or other approved leak detection method each time a cylinder(s) is replaced. [58:16.11.5]</p> <p><b>Δ 17.8.3.4</b> LP-Gas <b>pipng system</b> leak testing shall be documented. [58:16.11.3]</p> <p><b>Δ N 17.8.4 LP-Gas Systems on Vehicles Other Than Engine Fuel Systems.</b><br/>(read entire section)</p> <p><b>Δ N 17.8.5 Installation of LP-Gas Container Appurtenances.</b><br/>(read entire section)</p> <p><b>N 17.8.6 Installation of ASME Containers.</b><br/>(read entire section)</p> <p><b>N 17.8.7 Pressure Regulator Requirements.</b><br/>(read entire section)</p> <p><b>N 17.8.8 Installation of Pressure Regulators.</b><br/>(read entire section)</p> <p><b>Δ 17.8.9</b> Regulators shall be installed in accordance with 6.10.2 of NFPA 58 and the following:<br/>(read entire section)</p> |  |
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| <p><b>Δ N 17.8.10 Gas Piping.</b><br/> (read entire section)</p> <p><b>17.11 Training.</b><br/> <b>Δ 17.11.1</b> Prior to performing cooking operations, one worker shall be provided with initial training in emergency response procedures including the following:</p> <ul style="list-style-type: none"> <li>(1) Using portable fire extinguishers and extinguishing systems</li> <li>(2) Shutting off fuel sources</li> <li>(3) Notifying the local fire department</li> <li>(4) Refueling internal combustion engine power sources and LP-Gas container change-out</li> <li>(5) Performing leak detection of LP-Gas</li> <li>(6) Understanding fuel properties</li> </ul> <p><b>17.12 Parking, Service, and Repair.</b><br/> <b>17.12.2</b> The fuel system shall be free of leaks. [58:16.9.3]</p> <p><b>N 17.12.3</b> The container(s) shall not be filled beyond the limits specified in Chapter 7 of NFPA 58. [58:16.9.3.1]</p> <p><b>17.12.4</b> LP-Gas container shutoff valves shall be closed when not in use. [58:16.9.1]</p> <p><b>N 17.12.5</b> The container shutoff valve shall not be required to be closed when fuel is required for test or repair. [58:16.9.4]</p> | <p><b>17.10 Training.</b><br/> <b>17.10.1</b> Prior to performing cooking operations, one worker shall be provided with initial training in emergency response procedures including the following:</p> <ul style="list-style-type: none"> <li>(1) Using portable fire extinguishers and extinguishing systems</li> <li>(2) Shutting off fuel sources</li> <li>(3) Notifying the local fire department</li> <li>(4) Refueling internal combustion engine power sources and LP-Gas container change-out</li> <li>(5) Performing leak detection of LP-Gas</li> <li>(6) Understanding fuel properties</li> </ul> |
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### Annex A: Explanatory Material

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| <p><b>N A.3.3.12 Clean(ing).</b> Creosote is a fuel for fires and can be significant in solid fuel-burning appliances.</p> <p><b>N A.4.1.5.2</b> A service contractor with only periodic access to the equipment, such as the exhaust system cleaner and fire extinguishing system contractor, does not assume this responsibility.</p> <p><b>N A.12.2.5</b> Fixed temperature-sensing elements are manufactured to operate at predetermined temperatures, releasing tension on the detection cable and causing the system to discharge. Fixed temperature-sensing elements are typically listed with the temperature ratings shown in Table A.12.2.5.</p> <p>It is important to select fixed temperature-sensing elements that respond in a timely manner during a fire but that do not result in an unwanted discharge. It is also important to periodically take a temperature reading at each installation location to ensure the replacement devices are appropriate for each location. Improper selection of replacement devices could result in an unwanted discharge or a delayed response. [17A:A.8.3.4.1]</p> <p><b>N Table A.12.2.5 Typical Temperature Ratings of Fixed Temperature-Sensing Elements</b><br/>(See table in Annex)</p> <p><b>N A.17.2.1</b> Although 10 ft (3 m) clearance is considered reasonable to accommodate most fire departments, the AHJ should be allowed to determine if local fire service operations can accommodate vehicles parked closer than 10 ft (3 m).</p> |  |
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| <p><b>N A.17.8.2.3</b> The phrase “each use” is intended to mean that a visual inspection is needed each day, prior to the cooking appliances being used. Visually inspecting for a leak can be done using a soapy solution and looking for bubbles.</p> <p><b>N A.17.8.4.4.3</b> Cylinders should be retested every 5 to 12 years in accordance with the manufacturer's recommendations and 49 CFR 180.205 as follows:</p> <ul style="list-style-type: none"> <li>(1) No letter after the requalification date means the cylinder must be retested within 12 years.</li> <li>(2) “S” means the cylinder must be retested within 7 years.</li> <li>(3) “E” means the cylinder must be retested within 5 years.</li> </ul> <p>[58:A.16.3.2.3(A)]</p> <p><b>N A.17.8.6.2</b> Examples of attachments to nonpressure parts include saddle plates, wear plates, and brackets. [58:A.16.4.2.2]</p> <p><b>N A.17.11.6</b> The address required to be posted in 17.11.6 is so that anyone helping with the operation of the mobile or temporary cooking operation can quickly and correctly share their location with the 911 operator or emergency responders if assistance is needed. A suggested method for a vehicle with a regular route would be to create a flip chart with the regularly visited locations on durable pages that can be fastened in a prominent location.</p> |  |
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