



**BSR/ASHRAE Addendum f
to ANSI/ASHRAE Standard 62.1-2022**

Public Review Draft

Proposed Addendum f to Standard 62.1-2022, Ventilation and Acceptable Indoor Air Quality

**Second Public Review (July 2025)
(Draft shows Proposed Changes to Current Standard)**

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FOREWORD

This proposed addendum improves the resiliency of a building by improving the ability to adjust ventilation quickly and easily in response to air quality related emergency conditions. It will add a minimum requirement for the control system to include an Economizer Shutdown in the event that the outdoor air is more contaminated than typical, for example during a wildfire event to ensure that not more than the minimum airflow is provided. It also includes at a minimum a Demand Control Ventilation Shutdown in the event that there are unusual sources within the building that require dilution to ensure that not less than the minimum airflow is provided. An additional Infection Risk Management Mode is added to comply with Standard 241 Building Readiness Plan.

All emergency modes require a control systems notification to alert operators that the system is in an Emergency Control Mode. This mode also includes a requirement for an automatic return to normal operation based on a timer control to avoid accidentally leaving the systems in one of the emergency modes after the emergency situation has passed. This would have a maximum setting of 72 hours, but doesn't preclude it being extended, only that it requires re-initiation. The method of initiation is not a requirement, for example it may be manual or may be via sensed value, it is only required to automatically reset.

The committee notes that ventilation controls for air quality emergencies were published as Addendum k to Standard 189.1-2020. This addendum to Standard 62.1-2022 borrows from Addendum k, but differs in part due to Standard 62.1's mission to provide the minimum, rather than enhanced, requirements of ventilation, indoor air quality, and operation.

[Note to Reviewers: This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~strikethrough~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the current standard are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed changes.]

Addendum f to 62.1-2022

Add new Section 5.21 as shown below.

5.21 Ventilation System Emergency Control Modes. The building control system shall include modes of operation that adjust ventilation rates for emergency conditions. The control system shall allow initiation of the following modes:

- a. Economizer Shutdown: Disable economizer controls such that systems operate with minimum outdoor airflow only.
- b. Outdoor Air Intake Increase: Demand controlled ventilation (DCV) shall be disabled. The outdoor air intake flow (V_{ot}) and the exhaust rates shall be set to the maximum rates designated by the Designer for system operation in this mode.

Informative Note: An example emergency during which the Economizer Shutdown mode of operation may be used is a nearby wildfire causing poor outdoor air quality. An example emergency during which the Ventilation Increase mode of operation may be used is a temporary period of unusual indoor contaminant source.

5.21.1 Infection Risk Management Mode (IRMM): When compliance with Standard 241 requires a change to the ventilation system operation, that mode of operation shall be designated as a Ventilation System Emergency Control Mode.

5.21.2 Outdoor Pollution Mode: When compliance with a guideline for outdoor air pollution requires a change to the ventilation system operation, that mode of operation shall be designated as a Ventilation System Emergency Control mode.

Informative Note: Refer to Guideline 44 for Wildfires. Refer to Guideline 36 for other Outdoor Pollution events.

5.21.3 Ventilation System Emergency Controls Modes shall include a timer-based reset that automatically restores normal operation after a user-adjustable period that shall be limited to not more than 72 hours. The initiation of these modes shall trigger a control system notification.