



**Addendum u to
ASHRAE Guideline 36-2021**

Public Review Draft

Proposed Addendum u to Guideline 36-2021, High-Performance Sequences of Operation for HVAC Systems

**First Public Review (November 2023)
(Draft shows Proposed Changes to Current Guideline)**

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(This foreword is not part of this guideline. It is merely informative and does not contain requirements necessary for conformance to the guideline. It has not been processed according to the ANSI requirements for a guideline and may contain material that has not been subject to public review or a consensus process. Unresolved objectors on informative material are not offered the right to appeal at ASHRAE or ANSI.)

FOREWORD

The current sequences have three slightly different approaches to fan and pump alarms. This addendum provides consistency amongst all fan and pump alarms and matches the language used in the hydronic system sequences.

Note: In this addendum, changes to the current guideline are indicated in the text by underlining (for additions) and strikethrough (for deletions) unless the instructions specifically mention some other means of indicating the changes. Only these changes 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 substantive changes.

Addendum u to Guideline 36-2021

(IP and SI Units)

Revise Section 5.7.6.3 as follows:

- 5.7.6.3. Fan alarm is indicated by the status input being different from the output command ~~after a period of~~ for 15 seconds after a change in output status.
- a. Commanded on, status off: Level 2. Do not evaluate the alarm until the equipment has been commanded on for 15 seconds.
 - b. Commanded off, status on: Level 4. Do not evaluate the alarm until the equipment has been commanded off for 60 seconds.

Revise Section 5.8.6.3 as follows:

- 5.8.6.3. Fan alarm is indicated by the status input being different from the output command ~~after a period of~~ for 15 seconds after a change in output status.
- a. Commanded on, status off: Level 2. Do not evaluate the alarm until the equipment has been commanded on for 15 seconds.
 - b. Commanded off, status on: Level 4. Do not evaluate the alarm until the equipment has been commanded off for 60 seconds.

Revise Section 5.9.6.3 as follows:

- 5.9.6.3. Fan alarm is indicated by the status input being different from the output command ~~after a period of~~ for 15 seconds after a change in output status.
- a. Commanded on, status off: Level 2, Do not evaluate the alarm until the equipment has been commanded on for 15 seconds.
 - b. Commanded off, status on: Level 4, Do not evaluate the alarm until the equipment has been commanded off for 60 seconds.

Revise Section 5.10.6.3 as follows:

- 5.10.6.3. Fan alarm is indicated by the status input being different from the output command ~~after a period of~~ for 15 seconds after a change in output status.
- a. Commanded on, status off: Level 2, Do not evaluate the alarm until the equipment has been commanded on for 15 seconds.

- b. Commanded off, status on: Level 4. Do not evaluate the alarm until the equipment has been commanded off for 60 seconds.

Revise Section 5.16.13.2 as follows:

- 5.16.13.2. Fan alarm is indicated by the status input being different from the output command for ~~a period of~~ 15 seconds.
 - a. Commanded on, status off: Level 2. Do not evaluate the alarm until the equipment has been commanded on for 15 seconds.
 - b. Commanded off, status on: Level 4. Do not evaluate the alarm until the equipment has been commanded off for 60 seconds.

Revise Section 5.17.3.2 as follows:

- 5.17.3.2. Fan alarm is indicated by the status input being different from the output command for ~~a period of~~ 15 seconds.
 - a. Commanded on, status off: Level 2. Do not evaluate the alarm until the equipment has been commanded on for 15 seconds.
 - b. Commanded off, status on: Level 4. Do not evaluate the alarm until the equipment has been commanded off for 60 seconds.

Revise Section 5.18.12.2 as follows:

- 5.18.12.2. Fan alarm is indicated by the status input being different from the output command for ~~a period of~~ 15 seconds.
- a. Commanded on, status off: Level 2. Do not evaluate the alarm until the equipment has been commanded on for 15 seconds.
 - b. Commanded off, status on: Level 4. Do not evaluate the alarm until the equipment has been commanded off for 60 seconds.

Revise Section 5.19.2.2 as follows:

- 5.19.2.2. Fan alarm is indicated by the status input being different from the output command for ~~a period of~~ 15 seconds.
- a. Commanded on, status off: Level 2. Do not evaluate the alarm until the equipment has been commanded on for 15 seconds.
 - b. Commanded off, status off: Level 4. Do not evaluate the alarm until the equipment has been commanded off for 60 seconds.

Revise Section 5.22.5.2 as follows:

- 5.22.5.2. Fan alarm is indicated by the status input being different from the output command for ~~a period of~~ 15 seconds.
- a. Commanded on, status off: Level 2. Do not evaluate the alarm until the equipment has been commanded on for 15 seconds.
 - b. Commanded off, status on: Level 4. Do not evaluate the alarm until the equipment has been commanded off for 60 seconds.