



ADDENDA

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

High-Performance Sequences of Operation for HVAC Systems

Approved by ASHRAE and the American National Standards Institute on February 29, 2024.

This addendum was approved by a Standing Standard Project Committee (SSPC) for which the Standards Committee has established a documented program for regular publication of addenda or revisions, including procedures for timely, documented, consensus action on requests for change to any part of the standard. Instructions for how to submit a change can be found on the ASHRAE® website (www.ashrae.org/continuous-maintenance).

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ISSN 1041-2336



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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.

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 off~~ 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 off~~ 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 off~~ 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.

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Through its *Handbook*, appropriate chapters will contain up-to-date Standards and design considerations as the material is systematically revised.

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