

DOCKETED

Docket Number:	17-BSTD-02
Project Title:	2019 Title 24, Part 6, Building Energy Efficiency Standards Rulemaking
TN #:	222272
Document Title:	Staff Supplement Fume Hoods
Description:	Staff Supplement to CASE Report #2019-NR-MECH4-F by RJ Wichert.
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Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	1/19/2018 2:21:00 PM
Docketed Date:	1/19/2018

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Staff Supplement to CASE Report #2019-NR-MECH4-F

Date: 2017-10-25

Pages: 2

Author: RJ Wichert

Subject: High Efficiency Fume Hoods in Laboratory Spaces, 2019-NR-MECH4-F

DESCRIPTION OF PROPOSED REGULATORY CHANGES

CASE report #2019-NR-MECH4-F, titled High Efficiency Fume Hoods in Laboratory Spaces, proposes to make the following changes to the Standards:

- Added section 140.9(c)4 requiring automatic sash closure systems for fume hood intensive laboratories with variable air volume fume hoods and vertical sashes.
 - Sash closure system requirements:
 - Dedicated zone presence sensor that automatically closes the sash within 5 minutes of no detection.
 - Controls capable of preventing the sash from closing when a force of no more than 10 lbs is detected.
 - Obstruction sensor that prevents the sash from closing when obstructions are present. Obstruction sensor must be able to detect transparent materials.
- Added section NA7.17 which specifies the Acceptance Requirement for Code Compliance for automated sash closures covered under section 140.9(c)4.
- Added definitions for sash zone presence sensor and fume hood sash obstruction sensor to section 100.1

Staff agrees with the proposed changes to 140.9(c)4, 100.1, and NA7.17 and have incorporated substantively similar changes into the proposed Express Terms.

STAFF ANALYSIS AND CONCLUSION

Staff has analyzed the submitted CASE report and reached the following conclusions for the measures included in the Express Terms:

- Based on the evidence presented in the CASE Report, the measures, as proposed, appear to be cost effective and the author appears to have appropriately followed the Energy Commission's Life Cycle Cost methodology.

- Measure costs premiums presented in the CASE Report appear reasonable and appropriate for the measure proposed.
- Measure energy savings presented in the CASE Report appear to have been appropriately modeled and appear credible.