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JOINT AMCA & Advocates presentation

Joint presentation on proposal for the commercial and industrial fans and blowers workshop regarding the proposed regulation and staff report

Additional submitted attachment is included below.



Joint AMCA/Efficiency Advocates Proposal for Stand-Alone Fans

**Commercial and Industrial Fans and Blowers: CEC Staff
Workshop**

July 11, 2018

Michael Ivanovich, Air Movement and Control Association (AMCA) International

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Outline

- Joint Proposal Team
- Joint Proposal Scope & Primary Elements
- CEC Staff Proposal
- Support Going Forward

Joint Proposal Team

- AMCA International
 - 138+ member companies with consensus through Fan Regulation Committee
- Efficiency Advocates
 - ASAP
 - NEEA
 - NRDC
 - ACEEE
 - PG&E
 - SDG&E
 - SCE
 - SoCalGas®

Team History on Fans

- Since 2012:
 - Initial private negotiations between AMCA and efficiency advocates
 - U.S. Department of Energy ASRAC Working Group
 - ACEEE-led “EMPLI” motor-driven load incentive programs
 - California Title 20 rulemaking
- Plus:
 - ASHRAE Standard 90.1
 - AMCA 208 ANSI Standard Committee
 - AMCA 211 collaboration for AMCA fan certification

Team Goal & Approach for Joint Proposal

- Goal: a logical, enforceable, energy-saving approach to regulating commercial and industrial stand-alone fans
 - Leverage work already completed for the DOE rulemaking, including the 2015 ASRAC Term Sheet and the DOE analysis, plus AMCA 207 & 208 and what was learned since the conclusion of the ASRAC Working Group

Joint Proposal Scope

- Fans which are: stand-alone and one of the following categories:
 - axial inline
 - axial panel
 - centrifugal housed
 - centrifugal unhoused
 - centrifugal inline and inline mixed flow
 - radial housed
 - power roof/wall ventilator

Scope (cont'd)

- ...with rated shaft input power greater than or equal to 1 horsepower, or,
- for fans without a rated shaft input power, electrical input power greater than or equal to 1 kW, and,
- fan airpower less than or equal to 150 horsepower

Joint Proposal Primary Elements

- Fans tested in accordance with ANSI/AMCA Standard 210
- Fans rated for Fan Energy Index (FEI) in accordance with ANSI/AMCA Standard 208
- The FEI of fans manufactured on or after a date which is 2 years after the date of adoption at each manufacturer-declared operating point shall be not less than 1.00

Primary Elements (cont'd)

- From AMCA 211 toward testing/compliance:
 - Responsibility of the manufacturer to determine product sizes to be tested and the number of tests needed
 - Specifications for how fan laws can be used
 - Process for verification testing
- Proposed requirements for reporting, marketing materials/selection software, and labeling

CEC Staff Proposal

- CEC Staff Proposal for stand-alone fans largely reflects our Joint Proposal
 - Staff proposes to adopt FEI metric
- CEC's analysis shows that the proposed standards for stand-alone fans would achieve significant cost-effective savings for CA
 - 1,400 GWh/year and \$230 million/year after stock turnover
 - Benefit:cost ratio of between 4:1 and 37:1

Support Going Forward

- We continue to support CEC moving forward to establish standards for stand-alone fans
- We are still reviewing the details of the Staff Report
- We look forward to continuing to work with CEC to advance this rulemaking

Thank You...

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