



Feb. 12, 2024

AMCA Webinar for Senior Executives: DOE-Regulation Overview and Advocacy Strategy

Mark Bublitz, E.V.P. NY Blower, AMCA Chairman of the Board
Kevin Faltin, executive director, AMCA International
Michael Ivanovich, senior director, global affairs, AMCA International

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Participation Guidelines

- Audience members will be muted during the webinar.
- Questions can be submitted via the GoTo Webinar platform at any time and will be answered following the presentation.
- Reminder: This webinar is being recorded. The recording will be posted to the members-only section of the AMCA website within 48 hours.
- A link to a post-webinar survey will be e-mailed within a day. Please take a moment to complete.
- PDH credits are not available for today's webinar.

Q&A

To submit questions:

- On the attendee panel, select “Questions.”
- Type your question in the box, indicating the speaker your question is for.
- Click “Send.”

Questions will be answered at the end of the program.

Mark Bublitz

**Executive VP – Industry Affairs, NY Blower
Chairman of AMCA Board of Directors**

- 35 years in the industry
- 20 years AMCA involvement
- Involved in the US regulation effort since 2013
- Chair of AMCARC Energy Efficiency Subcommittee
- B.S., M.S, Mechanical Engineering
- MBA
- Contact: mbublitz@nyb.com



Michael Ivanovich

Senior Director, Global Affairs AMCA International

- Joined AMCA in 2011
- Coordinates global AMCA advocacy
- Primary staff person for fan regulations
- Past chief editor of *HPAC Engineering* and *Consulting-Specifying Engineer*
- B.Sc. Computer Science & Mathematics
- M.Sc. Building Systems Engineering
- Contact: mivanovich@amca.org



Kevin Faltin

Executive Director AMCA International

- Joined AMCA in 2022
- 22+ years in the building and life-safety industry
- Extensive global experience in product compliance
- B.S. Marketing
- Contact: kfaltin@amca.org

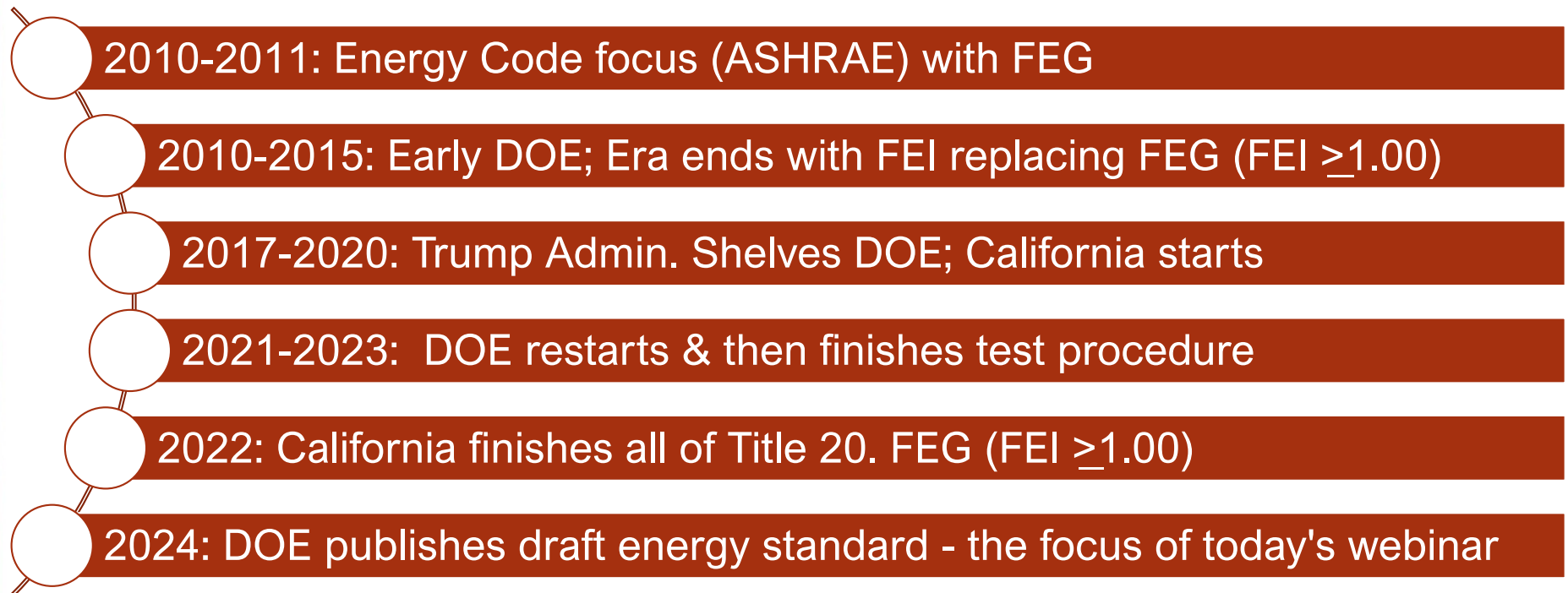




Outline

- Timeline – 2011 – 2024
- Status
- Major Issues
- AMCA Response: Phase 1
- AMCA Response: Future Phases/Tiered Approach
- Calls to Action
- Q/A

Timeline – DOE and California

- 
- 2010-2011: Energy Code focus (ASHRAE) with FEG
 - 2010-2015: Early DOE; Era ends with FEI replacing FEG (FEI \geq 1.00)
 - 2017-2020: Trump Admin. Shelves DOE; California starts
 - 2021-2023: DOE restarts & then finishes test procedure
 - 2022: California finishes all of Title 20. FEG (FEI \geq 1.00)
 - 2024: DOE publishes draft energy standard - the focus of today's webinar



Status of Fan Regulations

- California Title 20
 - Completed Nov. 22, 2022
 - Original effective date of Nov. 22, 2023
 - Now updating language to adopt DOE test procedure
 - New effective date of April 29, 2024
 - Staff will communicate other changes when CEC finalizes language
 - Manufacturers can voluntarily file in compliance database
 - AMCA has a filing service for members
 - Contact Charlie Meyers – cmeyers@amca.org



Status of Fan Regulations

- DOE Test Procedure
 - Published May 1, 2023
 - Corrected August 20, 2023
 - Took effect October 30, 2023
 - 34 manufacturers have extension to April 29, 2024
 - No filing requirements
 - Test method and published ratings must conform to procedure



Status of Fan Regulations

- DOE Energy Standard “Notice of Proposed Rule” (NOPR)
 - *Federal Register* publication Jan. 19
 - Live/remote hearing on Feb. 21
 - Deadline for comments on March 19
 - Expected to be completed (Final Rule) in 2024
 - Expected to take effect in 2029
 - Scope:
 - General Fans and Blowers (commercial/industrial fans)
 - Air Circulating Fans (that are not ceiling fans)



AMCA Response to Energy Standard NOPR

- Engaged committees:

- N.A. Air Movement and Code Action Review Committee (AMCARC)
 - Energy Efficiency Subcommittee
- Fan Engineering Committee
- Marketing Committee

- Consultants

- Tom Catania, Esq. – regulatory affairs
- Nate Baker, Cadeo – Project planning; Fan Shipment Database Analyses
- Tim Mathson, Retired – Fan engineering and FEI nuances

....It's a great team – many have been involved with DOE and California for a decade



General Fans and Blowers: Major Issues

- FEI levels set too high
- Complexity of the FEI calculation
- Representations for Non-Compliant Duty Points

- Not covered here:
 - Tolerances and surveillance testing
 - Calculating FEI if not tested with a drive

FEI Levels are High; Calculation is Complex

GFB Equipment Class	Fan Energy Index (FEI)	
Axial Inline	1.18	<p>*A if sold without a drive</p> <p>*A*B if sold with a drive</p> <p>A & B are adjustment parameters</p>
Axial Panel	1.48	
Axial Power Roof Ventilator	0.85	
Centrifugal Housed	1.31	
Centrifugal Unhoused	1.35	
Centrifugal Inline	1.28	
Radial Housed	1.17	
Centrifugal Power Roof Ventilator - Exhaust	1.00	
Centrifugal Power Roof Ventilator - Supply	1.19	



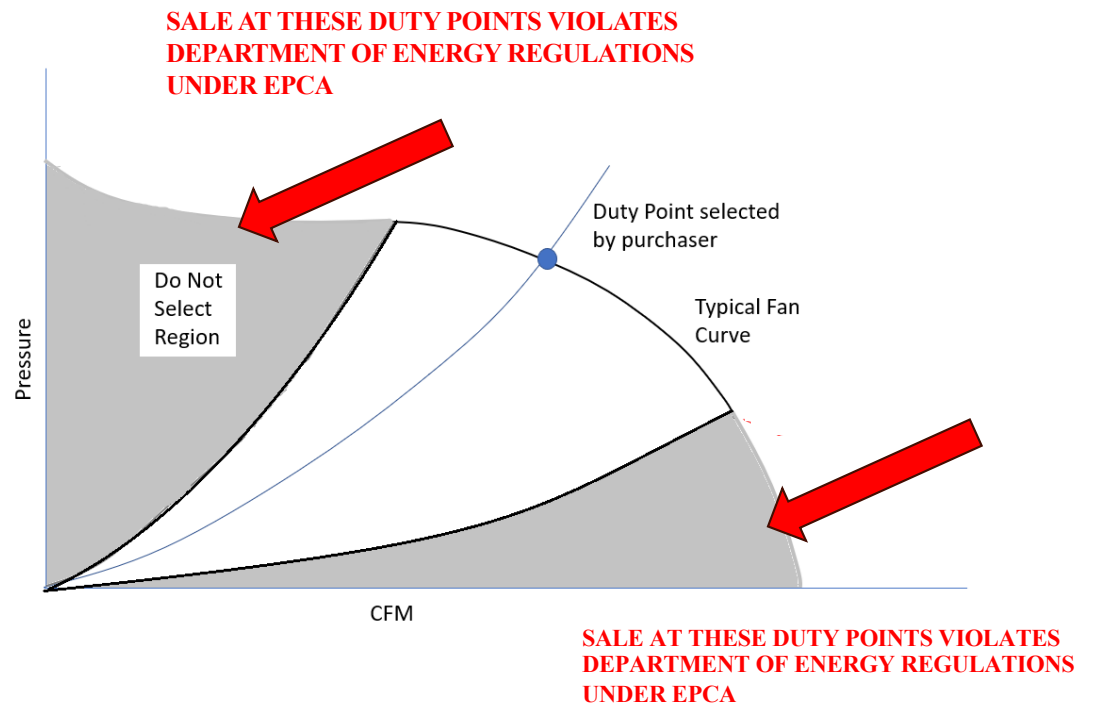
FEI Mathematics: FEI \geq 1.00 Meant Something

- FEI is a ratio of a baseline fan vs. fan being considered
- Baseline FEI \geq 1.00 for ALL FANS since 2015
 - Energy codes, California regulation, etc.
- DOE FEI ranges 0.85 – 1.48, depending on fan type
- Fan with FEI 1.10 is 10% more efficient at same duty point
- Axial Panel Fan: 1.48 is almost 50% more efficient than California
- Centrifugal Unhoused: 1.35 is 35% more efficient than California

Representations

GFB Representations including compliant and non-compliant points

- (1) identified by the following disclaimer: “Sale at these duty points violates Department of Energy Regulations under EPCA” in all capital letters, red, and bold font; and
- (2) grayed out in any graphs or tables in which they are included.”





Circulating Fans: Major Concerns

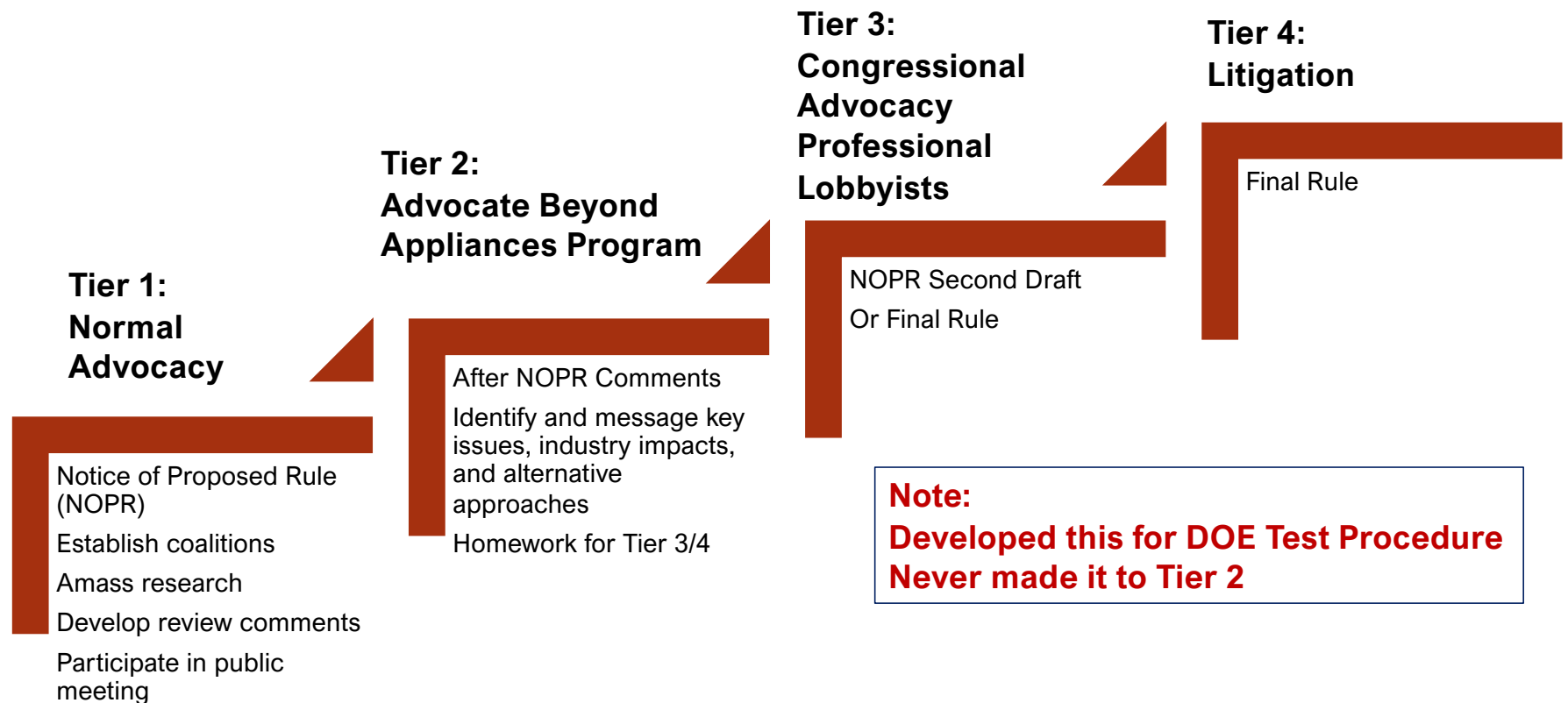
- Lower-performing product likely to be taken out of the market (low engagement)
- Many products likely still representing data with outdated standards
- DOE has taken liberty with anticipated electro-mechanical performance expectations



Call to Action

- AMCA is “us” (members are experts in products, AMCA staff are experts in advocacy)
- Engagement
- Communication
- Tiered advocacy – Executive area

Tiered Advocacy Approach: Just in Case





Questions and Answers

Contact: Michael Ivanovich, mivanovich@amca.org