**DOCKETED**

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<th>Docket Number:</th>
<th>17-AAER-05</th>
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<tr>
<td>Project Title:</td>
<td>Phase II Pre-Rulemaking</td>
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<td>Presentation - Results of the Invitation to Submit Proposals</td>
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<td>Description:</td>
<td>Phase II: Pre-Rulemaking presentation on proposals submitted California Energy Commission - October 24, 2017</td>
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<td>Filer:</td>
<td>Ryan Nelson</td>
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<td>Organization:</td>
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California Energy Commission

Results of the Invitation to Submit Proposals

Phase II: Appliance Efficiency Pre-Rulemaking

Appliances and Outreach & Education Office
Efficiency Division
California Energy Commission
October 24, 2017
Agenda

1. Overview of rulemaking process
2. Proposal review
3. Present brief overview of proposals received
4. Accept comments and questions
5. Identify next steps and opportunities to participate
Proposal Review

• Staff are primarily looking for the three requirements in the Warren-Alquist Act:
  – Statewide energy or water savings
  – Feasible and attainable efficiencies
  – No added total costs for consumers over the designed life of the appliance

• More detailed requirements are in Section 25402(c)(1) of the California Public Resources Code
Proposal Categories

- 17-AAER-06 Commercial and Industrial Fans and Blowers
- 17-AAER-07 General Service Lamps (Expanded Scope)
- 17-AAER-08 Spray Sprinkler Bodies
- 17-AAER-09 Tub-Spout Diverters
- 17-AAER-10 Irrigation Controllers
- 17-AAER-11 Set-Top Boxes
- 17-AAER-12 Low-Power Modes and Power Factor
- 17-AAER-13 Solar Inverters
California Energy Commission

Commercial and Industrial Fans and Blowers

- Air Movement and Control Association (AMCA), American Council for an Energy-Efficient Economy (ACEEE), Appliance Standards Awareness Project (ASAP), Northwest Energy Efficiency Alliance (NEEA), Natural Resources Defense Council (NRDC), California Investor Owned Utilities (CA IOU)*
  - Joint proposal proposed FEI metric and exemptions for embedded fans
- Air-Conditioning, Heating, and Refrigeration Institute (AHRI), Daikin Applied, Morrison Products, Weil McLain, Train
  - Independent proposals, proposed the exemption of all embedded fans and blowers

*Pacific Gas and Electric, San Diego Gas and Electric, Southern California Edison and SoCalGas
Commercial and Industrial Fans and Blowers

- ACME Engineering and Manufacturing Corp.
  - Proposed 3 point metric from first DOE NODA

- Armin Hauer
  - Proposed AMCA 230

- Harry Graves
  - Proposed the CFM / Watt metric

- ebm-papst
  - Proposed FEI metric and opposed to CFM/Watt metric for AMCA Standard 210

- Greenheck Group
  - Proposed FEI metric and exemption of all embedded fans and blowers
General Service Lamps (Expanded Scope)

- ACEEE, ASAP, Alliance to Save Energy (ASE), Consumer Federation of America (CFA), NEEA, Northeast Energy Efficiency Partnerships (NEEP), NRDC, CA IOU
  - Adopt the two 1/19/2017 DOE final rules regarding definitions/scope for general service lamps
  - Extend the range of products to include dimmer lamps
  - Make any amended regulations effective as soon as feasible
Spray Sprinkler Bodies

• CA IOU and Irrigation Association
  – Proposed pressure regulation and drain check valve minimum performance standards

• NRDC and ASAP
  – Expressed support for the CA IOU proposal

• Center for Irrigation Technology
  – Proposed a minimum water application efficiency performance standard
Tub Spout Diverters

- **Plumbing Manufacturers International**
  - Proposed to update the current subtype definitions for tub spout diverters

- **CA IOU**
  - Will conduct laboratory research to determine minimum leakage rates and the effects of water quality.
  - Test plan aligns with EPA’s WaterSense research proposal

- **NRDC and ASAP**
  - Support the test plan for tub spout diverters proposed by the IOU’s
Irrigation Controllers

- **CA IOU**
  - Recommend that all irrigation controllers sold in California offer water efficiency features, including weather-based or soil moisture sensor-based control, a maximum standby power draw requirement, and rain shutoff control
  - Recommend that controllers would also have the ability to reduce irrigation levels by 25% easily without reprogramming
Set-Top Boxes

• CA IOU
  – Recommend that the voluntary agreement (VA) negotiations respond to the 15 questions posed in the 8/22/2017 Commission roadmap guidance document
  – Recommend that VA negotiations address four additional questions posed by the utilities

• California Cable & Telecommunications Association (CCTA), the Internet & Television Association (NCTA), and the Consumer Technology Association (CTA)
  – Recommend the Commission defer consideration of the roadmap until negotiations to renew the VA are complete
Power Factor (PF)

- **CA IOU and NRDC**
  - Recommend a broad and stand alone scope with flexibility to fully or partially couple it with the scope for the low power mode at a later date

- **CA IOU**
  - Recommend horizontal framework for group(s) of products or vertical framework for individual products

- **ARRIS Group Inc, NCTA,**
  - Oppose minimum power factor requirements for small network equipment.
Power Factor (PF) Cont.

- **Phillips Lighting**
  - Opposed to minimum PF requirements in standby mode, in particular for lighting, because it adds cost without any benefits and accurate measurements are challenging

- **CCTA, NCTA, and CTA**
  - Recommend the Commission defer consideration of the roadmap for small network equipment until negotiations to renew the VA are complete

- **CA IOU and Phillips Lighting**
  - Recommend that more research and data are needed to propose good power factor test procedures and standards
Low Power Mode (LPM)

- **CA IOU and NRDC**
  - Recommend a broad scope for the low power mode

- **Phillips Lighting**
  - Recommend a separate cluster for all lighting products
  - Recommend two independent roadmaps for PF and LPM
  - Recommend horizontal and vertical framework lighting products

- **CA IOU**
  - Recommend horizontal and vertical framework for groups of products along with auto power down for products’ primary and secondary functions when not in use
Low Power Mode (LPM) Cont.

- **CCTA, NCTA, and CTA**
  - Recommend the Commission defers consideration of the roadmap for small network equipment until negotiations to renew the VA are complete

- **CA IOU and Phillips Lighting**
  - Recommend that more research and data are needed to propose good low power mode test procedures and standards
Solar Inverters

- **CA IOU**
  - Responded to the nine questions posed in the 8/22/2017 Commission roadmap guidance document
  - Made recommendations for consideration in the roadmap for product scope, test procedure, reporting, efficiency goals/standards, and additional policy considerations
California Energy Commission

Questions and Comments
Next Steps

Appliance Efficiency Rulemaking Process

- Commission Issues Order Instituting Rulemaking
- Invitation to Participate (gather information)
- Vet Information in Public Workshop
- Invitation to Submit Proposals
- Vet Proposals in Public Workshop

Changes

- Publish Draft Staff Analysis with Proposed Regulations
- Discuss Draft Staff Analysis in Public Workshop
- Revise Draft Staff Analysis with Feedback
- Publish Standardized Regulatory Impact Assessment (major regulations only)

Changes

- Publish Notice of Proposed Action, Initial Statement of Reasons, Proposed Regulations, & Final Staff Report
- Discuss Proposed Regulations in Public Workshop
- Commission Adopts Regulations at Business Meeting
- Submit Final Rulemaking Package to Office of Administrative Law
- Effective Date of Regulations

1/27/17
California Energy Commission

Thank you!

The proposals are currently available on the Commission's website:
http://www.energy.ca.gov/appliances/2017-AAER-05/

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Thank you!

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