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<td><strong>Project Title:</strong> Amend Title 20 Computer and Monitor Regulations</td>
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<td><strong>TN #:</strong> 235829</td>
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<td><strong>Document Title:</strong> Transcript of November 18, 2020 Public Hearing</td>
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<tr>
<td><strong>Description:</strong> N/A</td>
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<td><strong>Filer:</strong> Cody Goldthrite</td>
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<td><strong>Organization:</strong> California Energy Commission</td>
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<td><strong>Submitter Role:</strong> Commission Staff</td>
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<td><strong>Submission Date:</strong> 12/2/2020 11:01:05 AM</td>
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In the matter of:

Computer and Computer Monitors)   Docket No. 20-AAER-03
Proposed Regulations )
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PUBLIC HEARING

Title 20. Public Utilities and Energy
Division 2. State Energy Resources Conservation and
Development Commission
Chapter 4. Energy Conservation
Article 4. Appliance Efficiency Regulations

REMOTE VIA ZOOM

WEDNESDAY, NOVEMBER 18, 2020

10:00 A.M.

Reported by:

Martha Nelson
APPEARANCES

COMMISSIONER

Andrew McAllister

CEC STAFF

Corrine Fishman, Regulations Manager
Soheila Pasha, Electrical Engineer
Carlos Baez, Appliances Office

PUBLIC COMMENT

Erica Thomas, Information Technology Industry Council
Shahid Sheikh, Intel Corporation
WEDNESDAY, NOVEMBER 18, 2020

MS. FISHMAN: My name is Corrine Fishman. I’m the Regulations Manager for the Efficiency Division here at the California Energy Commission. And I want to welcome everybody to the Energy Commission’s public hearing for the Computer and Computer Monitor Proposed Regulations.

I’ll start by going over some general information and housekeeping if we can move to the next slide?

This public hearing is being held pursuant to the California Administrative Procedures Act, Government Code 11346.8. It’s being held online only due to COVID-19 public health order.

The purpose of the public hearing is to collect oral comments for review and consideration related to the Computer and Computer Monitor Proposed Regulations. We will be collecting comments, hearing comments, but we will not be responding to comments today.

Copies of the Initial Statement of
Reasons, the Notice of Proposed Action, and proposed text are available on the CEC’s website. It’s Docket 20-AAER-03.

This public hearing is being recorded by a Court Reporter. And all statements today become part of the public record.

And at this time, we are proposing adoption of these regulations by the Commission at the December 9th, 2020 business meeting.

Next slide please.

Just a few housekeeping rules.

All the lines are muted until after the presentation. Following the presentation, we’ll be taking public comment. If you have general clarifying questions, you can type that kind of question into the Q&A section.

For any kind of public comments related to the proposed regs, if you want to raise your hand to speak the host will give you the ability to speak, and then you must push the un-mute button.

If you’re on a cell phone, you can raise your hand by pushing star nine and the host will give you the ability to speak. Then you can speak push star six to mute and un-mute.
Because we’re recording the public hearing, please state your name and affiliation when speaking.

So at this time, I will pass the baton over to Soheila Pasha for her presentation.

DR. PASHA: Thank you, Corrine.

Good morning. My name is Soheila Pasha.

I’m an Electrical Engineer working for the Appliances Office in the Commission’s Energy Efficiency Division. I’m presenting an overview of the proposed amendments for the Computers and Computer Monitor Regulations.

Let’s just start with some background about Computer Regulations. The original Computer Regulations, Computer and Monitor Regulations, were adopted in 2016. The Commission’s adoption order for that rulemaking directs Staff to present new technologies, interfaces, features for adoption within six months in response to a petition for a rulemaking.

CEC adopted the first amendments to the Computer Regulations in 2017 to incorporate a new technology at that time. Similarly, CEC’s proposing amendments to include a set of new
technologies in this rulemaking.

The 45-day written public comment period for these proposed changes ran from October 2nd through November 16th.

Next, I will go over each new technology briefly.

The first new technology is a notebook that has a secondary integrated display which can also be used as a touchscreen keyboard. This figure shows a few examples of these new technology notebooks. Proposed changes include a new definition for multi-screen notebooks and a modification to the existing notebook definition to clarify that these devices are considered notebooks and must comply with the notebook standards.

Test procedure is also modified to specify the settings for the secondary display. Energy adder for the secondary display applies if the display is enabled when shipped and shows the same test image as the primary screen during testing. Also, Table-X, which includes a list of collected data, is modified to include data related to these notebooks.

The next new technology is about
computers exhibiting cyclical behavior. These type of computers periodically charge and discharge their battery while connected to a main power source. This will create a pulsing or cyclical power consumption pattern similar to the waveform that you can see in this figure.

Since charge and discharge time durations are typically longer than the time durations for the testing, test results would not be reliable unless the test procedure is modified.

Proposed changes include a new definition for computers with cyclical behavior and modifications to the test procedure to average the power measurements over a full cycle.

However, the modified test procedure does not apply to the computers that support operation without a battery pack when connected to a main power source. Table-X is also modified to collect the related data.

The next new technology is an ethernet port with data transfer rate between 1 and 10 gigabit per second. Existing regulations provide energy adders for ethernet ports with data transfer rate of more than 25 gigabit per second, and for ethernet ports that meet the add-in card
Proposed changes provide an energy adder for the ethernet ports with data transfer rate between 1 and 10 gigabit per second that are integrated on the mother board and, therefore, don’t meet the definition for an add-in card. Data related to this type of ethernet port is also collected for Table-X.

The last new technology is about the computer gaming monitors with a refresh rate of 300 hertz or higher that incorporates incremental hardware-based assistance.

Proposed changes add a new definition for this type of high-performance monitors. And because monitors on-mode energy consumption is higher when its refresh rate is higher, this proposal adds a new energy adder to provide an adequate energy allowance for this type of computer monitors. This new energy adder increases as the monitors refresh rate increases but it caps at 480 hertz. Data related to this new technology is also collected for Table-X.

This concludes my presentation today. Now we can start taking your comments.

MS. FISHMAN:  Okay. I’d like to just
take a moment, before we move forward, and
welcome Commissioner McAllister to our public
hearing, and thank you so much for joining us.
Commissioner, before we move forward with
comments, would you like to make a comment?
COMMISSIONER MCALLISTER: Yeah. Thank
you, Corrine. I appreciate it.
And Soheila, thank you for your
presentation. I was just a couple minutes late,
so apologies for that. Lots going on these days,
nationally and internationally, as you all might
imagine.
Let’s see. So, I wanted to just thank
everyone for being here. This update, in my
view, is really just kind of a good government
update, taking into account movement in the
marketplace. And it really comes from listening
to stakeholders and moving with the flow of
technology. And so we need to be responsive to
those developments. And I think Staff has been
interacting with stakeholders.
We certainly encourage everyone on the
line here to opine today and submit comments to
make sure we get the specifics right. But I
don’t think we anticipate a lot of differences of
opinion here but we want to work out any final
details that are still there.

So I’m happy to see this move forward and
really want to, again, thank Staff for all the
hard work, and the stakeholders for being part of
this process. That’s really kind of the
lifeblood of getting it right and that’s what we
try to do. So, certainly, everyone should be
listening and providing input so that we can get
to a finish line that works for everyone.

So thanks all for being here again.

MS. FISHMAN: All right. Thank you,
Commissioner. Appreciate that.

We’ll now open it up for public comments.

If you would like to make a comment, please use
the raise-hand feature, and we’ll take those
comments.

MR. BAEZ: Hi. This is Carlos Baez from
the Appliances Office. I’m helping to run the
Zoom today. So I see already there’s one hand
raised from Erica.

So, Erica, I’ll allow you to un-mute
yourself right now. And, yeah, before you speak,
if you could please state your name and
affiliation, that would be appreciated. Thank
you.

MS. THOMAS: Hi. Thank you. I’m Erica Thomas and I’m from the Information Technology Industry Council, that’s ITI, and we represent some of the world’s leading information and communications technology companies from around the world in all corners of technology sector, including hardware, software, digital services, semiconductor network equipment, and internet, as well as technology-enabled companies that rely on ICT to transform their business, so that’s who I am.

And just wanted to take this opportunity to express our appreciation for all the work that’s been done on this. ITI members strongly believe that California Energy Efficiency Standards need to keep pace with new technologies and innovations to provide California consumers more innovative solutions and energy efficient choices. And CEC’s proposed rulemaking, we believe, is a step in the right direction.

And, accordingly, we just wanted to take this opportunity again to express our support for all of the key amendments in CEC’s proposed rulemaking in this Docket 20-AAER-03. So -- and
we also support the regulatory language detailed in the express terms.

So thank you, Commissioner McAllister, and thank you so much to CEC Staff for the years of collaboration too. I think that benefits us all on appliance energy efficiency standards.

That’s all.

COMMISSIONER MCALLISTER: Great.

MS. FISHMAN: Thank you so much, Erica, for the support.

Is there anybody else who would like to make a comment?

MR. BAEZ: I don’t see any other hands raised at this point.

Also, if for some reason you can’t connect to a microphone, you could also type your comment out into the Q&A and then we’ll read it into the record for you.

(Pause)

MS. FISHMAN: Okay. So, Carlos, do we have anything in Q&A, anybody raising their hand?

DR. PASHA: I see that there is one raised hand, Carlos.

MR. BAEZ: Okay. Yeah, nothing in the Q&A, but, yeah, we have a raised hand from
Shahid.

So I’ll allow you to un-mute yourself right now, Shahid.

MR. SHEIKH: Yeah. This is Shahid Sheikh from Intel Corporation. And I second everything that Erica just mentioned from ITI, you know, and we support, you know? And we had minor comments that we listed, you know, as part of the ITI in the written comments.

And I just had one question. You know, I don’t know if you have time for that, in terms of the presentation that you had. You talked about December 9th. Could you talk -- maybe a little bit expand about what the agenda for the December 9th meeting would be?

MS. FISHMAN: On December 9th the Commission is holding their business meeting and we will be presenting. At this time, we are proposing to present these regulations to the Commission for adoption at that meeting.

MR. SHEIKH: So is that a closed meeting or is that a public meeting as well?

MS. FISHMAN: Oh, that is a public meeting.

MR. SHEIKH: Okay.
MS. FISHMAN: That is a public. You can find all the information on CEC’s website.

MR. SHEIKH: Okay. Thank you very much.

MS. FISHMAN: Okay. Anybody else would like to make a comment or type a question into the Q&A? Just give another minute or so before we close out.

(Pause)

MS. FISHMAN: Let’s see, 10:19. I’ll give one more minute in case anybody would like to make a comment.

(Pause)

MS. FISHMAN: okay. Well, it is 10:20 and I am going to, again, thank everybody for participating this morning. Thank you for your comments. And we will close the record and close this public hearing.

Thank you.

(The public hearing concluded at 10:20 a.m.)
CERTIFICATE OF REPORTER

I do hereby certify that the testimony in the foregoing hearing was taken at the time and place therein stated; that the testimony of said witnesses were reported by me, a certified electronic court reporter and a disinterested person, and was under my supervision thereafter transcribed into typewriting.

And I further certify that I am not of counsel or attorney for either or any of the parties to said hearing nor in any way interested in the outcome of the cause named in said caption.

IN WITNESS WHEREOF, I have hereunto set my hand this 2nd day of December, 2020.

[Signature]

MARTHA L. NELSON, CERT**367
CERTIFICATE OF TRANSCRIBER

I do hereby certify that the testimony in the foregoing hearing was taken at the time and place therein stated; that the testimony of said witnesses were transcribed by me, a certified transcriber and a disinterested person, and was under my supervision thereafter transcribed into typewriting.

And I further certify that I am not of counsel or attorney for either or any of the parties to said hearing nor in any way interested in the outcome of the cause named in said caption.

I certify that the foregoing is a correct transcript, to the best of my ability, from the electronic sound recording of the proceedings in the above-entitled matter.

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MARTHA L. NELSON, CERT**367

December 2, 2020