

STATE OF CALIFORNIA - THE RESOURCES AGENCY
BEFORE THE
CALIFORNIA ENERGY COMMISSION (CEC)

In the matter of,)
)
Battery Charger System and)
Self-Contained Lighting Control) Docket No. 11-AAER-02
Regulations, California Code of)
Regulations, Title 20, Section)
1601 through Section 1609)

Staff Workshop

**re: Technical Assistance in Certifying Battery
Charger Systems and Self-Contained Lighting Controls**

California Energy Commission
Hearing Room A
1516 9th Street
Sacramento, California

Tuesday, October 23, 2012
10:01 A.M.

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Staff Present

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INDEX

	Page
Welcome and Introduction	
Mike Leason, Manager, Appliances and Process Energy Office	4
Regulatory Requirements and Effective Dates	
Ken Rider, Associate Electrical Engineer	6
Product Testing	
Ken Rider, Associate Electrical Engineer	
Self-Contained Lighting Controls	
Gary Flamm, Supervisor Title 24 Lighting	26
Product Certification Process	
Peter Strait, Compliance Program Lead	32
Open Discussion	
Public Comment	42
Adjournment	95
Reporter's Certificate	96
Transcriber's Certificate	97

1 P R O C E E D I N G S

2 OCTOBER 23, 2012 10:01 A.M.

3 MR. LEAON: Thank you for being here today,
4 either remotely or in the room.

5 My name is Mike Leacon; I'm the Manager of the
6 Appliances and Process Energy Office, and looking
7 forward to a good discussion today on the Battery
8 Charger Standards.

9 The purpose of today's workshop is to provide
10 technical assistance to manufacturers and other market
11 participants that will be certifying their battery
12 charger systems to the Energy Commission.

13 The purpose today is not to re-litigate the
14 regulations but, again, to focus on how do I certify my
15 product to the Energy Commission to meet the regulatory
16 requirements?

17 We'll be beginning the workshop with an overview
18 of the regulatory requirements, including product
19 testing. And that will also include a presentation on
20 both the battery charger requirements and the
21 requirements for self-contained lighting controls.

22 We'll also hear from Compliance staff and they
23 will be talking about the certification process and what
24 you need to do to certify your product.

25 And then we'll have open discussion and we're,

1 of course, interested in hearing from market
2 participants about any challenges that you may be having
3 in certifying your product. And, of course, staff will
4 be available not only today to broadly address your
5 questions, but given the time constraints of a workshop
6 setting we may not be able to get into detailed
7 discussion regarding individual issues with market
8 participants and maybe your individual challenges in
9 certifying.

10 But, of course, staff is available by phone or
11 through e-mail to address those issues in a more one-on-
12 one setting. And we have been doing that, we've had
13 quite a few contacts from manufacturers that already are
14 in progress or have already submitted their data
15 submittals.

16 And we thank those manufacturers that have
17 submitted their data early in the process.

18 A few housekeeping announcements before we get
19 into the workshop, itself. For those that are in the
20 room, restrooms are located directly across the atrium.
21 There is a cafeteria on the second floor, if you go up
22 the main stairs and look directly across, you will see a
23 white awning and there is a cafeteria there.

24 In the event of an emergency the alarm will
25 sound and if you would follow staff out the main doors,

1 to P Street, we will evacuate to the park that is
2 kiddie-corner to the Energy Commission.

3 And let's see, anything else to cover on that?

4 I think that covers the housekeeping announcements.

5 And at this point I'd like to open the workshop
6 and introduce Ken Rider, Associate Electrical Engineer
7 with The Appliances Program. And Ken will be discussing
8 the regulatory requirements and effective dates for the
9 battery charger systems. Thank you.

10 MR. RIDER: Good morning everyone, I'm Ken
11 Rider. And I'm going to start this presentation with
12 just what is required by these battery charger system
13 regulations?

14 And there's four main things that are required.
15 The first is testing the battery chargers; you need to
16 test it according to the appropriate test, knowing
17 exactly which ones those are.

18 You need to comply with minimum efficiency
19 standards and, again, those are going to be dependent on
20 what kind of battery charger you make.

21 You need to certify. And Peter's really going
22 to be going later into detail about the certification
23 process.

24 And you need to label or mark your battery
25 charger.

1 So, we've actually got a new website. If you've
2 followed the rulemaking, it's changed a bit since you
3 probably first saw it. I've provided a link in this
4 presentation directly to the regulations, but I'm also
5 going to quickly run through how to find them on the new
6 website.

7 Well, let's see here, I'm going to start from
8 the Energy Commission's Home Page. Hopefully, you can
9 all see this remotely.

10 But so at the Energy Commission's website the
11 quickest way to get to the Appliances page is to use
12 this top bar, select efficiency, a drop-down kind of
13 type menu should show up, and select "Appliance
14 Efficiency."

15 Now, this is where the pages are maybe different
16 than what you're used to. To get to the battery charger
17 specific information scroll down and under "Proceedings
18 and Rulemakings" you'll find a link to the battery
19 charger system rulemaking.

20 This is where all the documents related to the
21 rulemaking live. There's a "Frequently Asked Questions"
22 link right here, it's very useful, but to get to the
23 regulations, themselves, you're going to want to click
24 on "Workshops and Associated Documents."

25 And this very first link is a clean copy of the

1 regulations. So, I'm going to go ahead and click that
2 and open that up with our lightning fast internet
3 connection.

4 So, while that's loading, the first thing you
5 need to think about is the scope of the regulations. As
6 a manufacturer of battery chargers the first thing
7 you're going to want to ask yourself is am I regulated,
8 am I covered by this regulations?

9 And there's two sections that will help you
10 determine that. 1601 is the actual scope section of the
11 regulation and then the terms used in 1601 are defined
12 in Section 1602.

13 And so using both of those sections you should
14 be able to determine whether your product is covered by
15 this regulation.

16 And I'm actually going to go to those
17 regulations. There they are. And let's see if I can
18 make them bigger, so to show you exactly what I mean.
19 So, I already passed 1601. So, 1601 isn't a very long
20 section. You can see battery chargers, generally,
21 throughout the whole regulations in each section will be
22 Subsection W.

23 And so the scope here are battery charger
24 systems. That's a very broad, broad term and we'll get
25 into exactly what that means.

1 But there are some exceptions up front. So, if
2 you are using a battery charger to charge a highway
3 vehicle, a motor vehicle like a Chevy Volt, then you are
4 not -- that type of battery charger would not be
5 covered.

6 If you are a Class 2 or 3 human device, medical
7 device, then as written here then you are not covered by
8 this regulation.

9 And there's a few other ones, so you can go
10 ahead and read this and determine if maybe you meet one
11 of these conditions.

12 And then the other part of it, so the scope is
13 battery charger systems; what is a battery charger
14 system?

15 So, let's see, so here's the definition, on page
16 4, of a battery charger system. It's a very broad term
17 and it means a battery charger coupled with its battery.
18 So, you know, a battery charger is basically a battery
19 charger.

20 There's more detail down here, but it is most
21 products that contain a battery and a battery charger
22 are covered by this regulation, all the way from
23 shavers, cordless phones, power tools, laptops, all
24 sorts of products.

25 So, after you've determined whether you're in

1 the scope of not, the next part is testing. Assuming
2 you do have a product that's in the scope, you need to
3 test the product for energy performance.

4 So, Section 1604, again subsection W, contains
5 all the testing requirements for battery charger
6 systems.

7 And there are two test procedures, one for large
8 battery charger systems and a separate one for small
9 battery charger systems.

10 And I'm going to -- we've actually provided
11 copies of both of those test procedures on the website,
12 that same website that had the link to the clean copy
13 also has links to the test procedures.

14 Beyond the test procedures, themselves, there
15 are some additional details located in the regulations
16 about testing and I'm going to go through them real
17 quick to show you how you'd find those.

18 So, here is -- this is what I was just
19 mentioning, Section 1604, again Subsection W is battery
20 charger systems.

21 You can see for small battery charger systems
22 the test procedure is the Federal test procedure.

23 But you can also see below that there's subparts
24 a, b, c and d. And so these are some additional details
25 that let you know -- sometimes, for example, the Federal

1 test procedure produces multiple test results. It has
2 you test your battery charger system maybe three times.

3 So, these additional details help you figure out
4 which of those test results we're interested in to
5 comply with the regulations.

6 The test procedure is different for the large
7 battery charger systems, it's in Subsection 2 and this,
8 again, is available on the website, this test procedure.
9 And it also has, again, more detail about which test
10 results we're interested in.

11 So, to get to these test procedures -- I'm going
12 to go back. So this is, again, that documents page for
13 the rulemaking.

14 To get to the test procedure information scroll
15 all the way down to the bottom of the page and click on
16 "Reference Documents" and you'll see the first link here
17 is the Federal test procedure and the third link down is
18 the test procedure for large battery charger systems.

19 I'm actually going to walk real quick -- the
20 majority of products are small battery charger systems,
21 so I'm just going to run through, real quick, what's in
22 the test procedure.

23 So, I want to point out that there are
24 definitions in this test procedure. Most of these
25 definitions match very well with the definitions in

1 Section 1602 that I mentioned earlier. There are some
2 slight differences, mainly in what's considered a multi-
3 port battery charger.

4 For the purposes of testing you want to follow
5 exactly what these definitions are.

6 When you get the test results, you're going to
7 want to use the definitions in the regulations for
8 certification.

9 And I'll get into exactly the main -- the
10 biggest difference is in multi-port and I'll get into
11 that later, when we get to the actual regulations.

12 So, this has, again, a definition section just
13 like we have in Section 1602. Some of the main -- I
14 want to get to two main points that I've actually got a
15 lot of questions on.

16 I get lots and lots of questions on this Federal
17 test procedure.

18 The first is selection of a power source and
19 that's in Section 3.4, verifying the unit's input
20 voltage and input frequency.

21 So, this is how you figure out how you're going
22 to power the battery charger system during testing. And
23 there's four different ways and the biggest -- if you
24 just have a plug, you plug it into the wall at 115
25 volts.

1 But the interesting part, or interesting
2 products are products such as cell phones, which have
3 external power supplies. Sometimes the external power
4 supply is packaged with the cell phone, sometimes it's
5 not. And depending on how the manufacturer is providing
6 that product will determine whether you're going to
7 select a third party external power supply or perhaps
8 the lab will just directly provide like 5 volt -- if
9 it's a USB charger, 5 volts of DC power.

10 And that distinction is located here in Section
11 3.4. So, when you're going to test this product and
12 you're interested in, oh, I've got a USB type product or
13 an external power supply how do I test this product,
14 Section 3.4 is going to give you the detail on that.

15 The other interesting part of this test is
16 determining -- people are always wondering what do I use
17 for battery capacity? They're like, well, how do I
18 determine this is important for certification, this is
19 important for figuring out what standard you have to
20 meet. Where do I figure out what that battery capacity
21 is?

22 And so that's located in the -- that's actually
23 part of the test procedure and it's the discharge
24 battery test. Let's see if I can find that here. It
25 should be section -- it should be right up here.

1 Section 5.8 is the battery discharge energy
2 test. And so we're not using like the label capacity,
3 that batteries are sometimes labeled with their
4 capacities. Sometimes it's in watt hours, most of the
5 time it's in amp hours.

6 What we're looking for is watt hours as tested
7 in this Section 5.8 of the test procedure.

8 So, I'm going to go ahead and go back to the --
9 so that's how testing's done. You can find the test
10 procedures online, so that's the first -- you've
11 determined if you're covered or not. If you're covered,
12 you've tested the product.

13 Then you have to see if you meet the performance
14 standards. So, the performance standards are in Section
15 1605.3, Subsection W, and they're in different sections
16 depending on what kind of battery charger you make.

17 For instance, small battery chargers have their
18 standard. Uninterruptable power supplies have a
19 separate alternative standard, the same with inductive
20 chargers. And large battery chargers have just their
21 own section, as well.

22 And that's described here and I want to show you
23 exactly where you'd find those in the -- no, that's not
24 the right page -- in the regulations.

25 So, I'm going to go to 1605. -- so, just

1 briefly, 1605.1 and 1605.2, when you're trying to comply
2 with these battery charger regulations you don't need to
3 worry about these. This is where Federal regulations
4 live in our standards.

5 Obviously, these are State standards so you
6 needn't worry about 1605.1 or 1605.2, at least for now,
7 and really want to focus on 1605.3.

8 So, right now we're looking at lighting control
9 regulations but further down, again in Subsection W, are
10 the regulations for battery charger systems.

11 So, this table W.1 contains all the requirements
12 for large battery charger systems. You can see there
13 are five different factors we're looking at for large
14 battery charger systems.

15 All of these come from those test procedures we
16 were just discussing. And so what you would do at this
17 point is take the results from those test procedures and
18 see if you meet these standards to the right side. And
19 if you don't, you need to redesign. If you do, then you
20 can move on to certifying.

21 Again, this battery capacity that I mentioned in
22 the test procedure, that's referenced in these standards
23 as E(b), which is that same discharge, that energy
24 tested in that battery discharge test.

25 And Part 2 here is the small battery charger

1 systems regulations. Interestingly here, a lot of the
2 people get tripped up on the effective dates.

3 So, let me go back to the large battery
4 chargers. The effective date for large battery charger
5 systems is January 1, 2014.

6 The effective date for small battery chargers
7 depends and it's dependent on these subsections A, B and
8 C.

9 So, A says for consumer products that are not
10 USB charger systems with a battery capacity of 20 watt
11 hours or more, and are manufactured on or after February
12 1, 2013, this is the subsection, this part says "need to
13 meet the standards." So, they need to meet the
14 standards by February 1, 2013.

15 Many people get tripped up on this, or
16 manufacturers. I've received many questions about this,
17 USB charger systems with a battery capacity of 20 watt
18 hours or more.

19 And so when you've got your product and you're
20 trying to figure out, okay, when do I need to comply?
21 The trick here is to just think about your product in
22 terms of these things, am I a consumer product? Am I
23 something that Wal-Mart would carry or something like
24 that?

25 Okay, let's say I was, all right check, so I

1 meet that first part.

2 Am I USB charger system could be the next thing
3 you think about. If it's no, then I've also met that
4 second condition, I'm not a USB charger system.

5 Okay, and then so my date to comply is February
6 1, 2013.

7 Let's say I was a USB charger system and I'm
8 still a consumer product. Okay, so I'm a consumer
9 product, check. I am not a USB charger system -- okay,
10 all right, I am so I haven't met this so far. But do I
11 have a battery capacity of 20 watt hours or more?

12 Now, let's say I have something that has a
13 battery capacity of 15 watt hours. Okay, so then I am
14 actually not what this is talking about because this is
15 only talking about USB charger systems with a battery
16 capacity of 20 watt hours or greater.

17 So I, again, would run into February 1, 2013.

18 And the only case where I won't be -- have to
19 comply with the February 1, 2013 is if, one, I'm a non-
20 consumer, I'm not a consumer product or, B, I am a USB
21 charger system with a very large battery capacity, a
22 battery capacity of 20 watt hours or greater.

23 And let's say I was that USB charger system with
24 20 watt hours or greater, then I would need to meet this
25 part B here. In this case I'd be a consumer product and

1 I would be that USB charger with a larger capacity, and
2 in that case I wouldn't need to comply until January 1,
3 2014.

4 If I was not a consumer product, I would not
5 meet A or B and I would look to see to determine the
6 effective date of the regulations.

7 So, for not consumer products the effective date
8 is January 1, 2017.

9 So, I'm going to scroll down. So, this
10 exception here talks about repair parts, replacement
11 parts and essentially provides if these conditions are
12 met, repair parts have an additional five years beyond
13 what a product would have under A, B and C. So, you can
14 provide repair parts to existing products out there, you
15 can continue to manufacturer them for five years beyond
16 the effective data.

17 Table W.2, this is where the majority of the
18 standard -- for most small battery chargers, you're
19 going to be looking at Table W.2.

20 And there are two metrics here, two things you
21 need to comply with. The first thing is a maximum 24-
22 hour charging maintenance energy. That's going to come
23 straight out of the test procedure. The test procedure
24 will provide you with your battery charger's 24-hour and
25 charging maintenance energy.

1 Now, the standard you need to meet depends on
2 the capacity of the battery. This actually creates a
3 continuous line, there are no discontinuities here. But
4 the slope of the standard line gets shallower or not as
5 steep as the capacity grows.

6 So, okay, let's say I've got a battery capacity
7 of 10 watt hours. So, I would look at this table and it
8 says for battery capacities of 2.5 watt hours or less.
9 Okay, that's not me.

10 And then I go, okay, the second one for battery
11 capacities greater than 2.5 watt hours and less than 100
12 watt hours, yeah, okay, ten's between 2.5 and 100. So,
13 this is the standard that I would want to meet.

14 And then, okay, now I need -- there's some
15 calculations going on, how do I do that?

16 So, there's two variables in here, N, which
17 stands for the number of ports and this, again, is where
18 I mentioned earlier that the multi-port definition in
19 the test procedure is different than the multi-port
20 definition -- what we view as the multi-port in these
21 regulations.

22 N is the number of independently controlled
23 battery charging circuits you have in the -- or
24 individually controlled ports that you have, ports that
25 aren't dependent on other ports.

1 And that's maybe better described in Section
2 1604. But it's not just the number of slots in the
3 battery charger that your battery charger has.

4 Let me give you an example, so there's -- let's
5 say we had a battery charger that charged four AA
6 batteries, okay. If each of those batteries were
7 individually controlled and charged, meaning that the
8 product had its own control, own meter, battery capacity
9 meter for each one of those, then the number of ports
10 would be four.

11 But what could also be is that you have two sets
12 of two chargers in there and they share an indicator
13 light, so you may have only two indicator lights for
14 your four AA batteries.

15 In that case, the number of ports would only be
16 two because you've only got two independently controlled
17 battery chargers.

18 So, that's what N is. If you've got a single
19 port charger, N will always be one.

20 And then, again, this is the battery capacity
21 from the discharge test. And you would plug in those
22 numbers and that gives you the limit. So, whatever you
23 received as a test result needs to be less than this
24 limit.

25 Then we have maintenance mode and battery mode

1 power. And this one is interesting because this --
2 unfortunately, it's on two pages. But this one has
3 actually got two calculations you've got to do.

4 Again, I've already explained what N and BC are,
5 so you'd plug that in to figure out what the maximum
6 amount of watts are.

7 But this isn't directly comparing a result from
8 the test procedure; it's comparing the addition of two
9 results from the test procedure.

10 So, you need to add the no-battery-power from
11 the test procedure with the maintenance mode power from
12 the test procedure, and that is what you are comparing
13 to this equation.

14 And that's described here in maintenance mode,
15 annual battery mode power, so it's the addition of those
16 two things. And I think the -- yeah, it describes that,
17 the sum of maintenance mode power and no-battery-mode
18 power must be less than or equal to this equation.

19 So, a little bit different than the first metric
20 because you have to actually add up a few things from
21 the test procedure before you can compare it with the
22 standard.

23 These parts three and four are standards for
24 inductive charger systems, and battery backup and
25 uninterruptible power supplies.

1 The inductive charger system standard is
2 essentially one watt. Basically, your product needs to
3 use on average no more than one watt through the -- so,
4 for maintenance mode power that needs to be less than
5 one watt.

6 You know, battery mode power needs to be less
7 than one watt.

8 And then the average power over the 24-hour
9 charging maintenance mode needs to be less than one
10 watt.

11 For battery backup systems and uninterruptible
12 power supplies we are only regulating one mode of
13 operation and that is maintenance mode. And the
14 equation that you would -- for the maximum amount of
15 watts that you can use in maintenance mode is, here I've
16 highlighted it, it's 0.8 plus .0021 times the battery
17 capacity.

18 And the effective date for these products is
19 January 1, 2017. And the effective date for inductive
20 chargers is restated here, as well.

21 So, we've identified our products, we've tested
22 them, we've checked whether we meet the standards. The
23 next step is to certify the products.

24 So, the certification part of our standards is
25 located in Section 1606 and there's this big table in

1 Section 1606 called Table X. That contains all of the
2 information that we want from manufacturers to certify,
3 to show that they comply with the regulations.

4 And again, Peter will be going in more detail
5 later on, on the certification process.

6 But I want to show you this Table X real quick.
7 So, again, in Section W, consistent with the rest of the
8 regulations, are the information on battery charger
9 systems.

10 See the top here are small battery systems,
11 below are large battery charger systems. You can see
12 the information we're looking for is what kind of
13 project does this battery charger belong to? What
14 words, and these right here are direct from the test
15 procedure, "When you tested it what did you get for 24-
16 hour charging maintenance?" "When you tested it what
17 did you get for battery maintenance mode", et cetera.

18 And then we have a few yes or no questions, just
19 trying to figure out what kind of battery charger you
20 are.

21 The same thing goes for large battery chargers,
22 this is so we know what product type you are. These are
23 all straight out of the test procedure. We want those
24 numbers, though, to show whether you meet the standards
25 or not.

1 So, again I won't get too much into
2 certification as we have another presentation on that.

3 So, these standards require labeling or marking.
4 And there's actually an option available here. You can
5 either -- and this marking is supposed -- is a BC inside
6 of a circle and it can be marked or labeled in two
7 different ways.

8 The first is you can put it on the nameplate of
9 the product that contains the battery charger terminals.
10 What that means is the product, where the battery sits,
11 where it's charging the nameplate of whatever that
12 product is should contain a BC. That's one way you can
13 comply with these marking requirements.

14 There's an option, as well, you can put this BC
15 mark on the product packaging. And if you do that, you
16 also need to put the BC mark on the cover page of the
17 instructions.

18 It's also mandatory that these be permanent
19 markings, especially when you mark the product and they
20 need to be legible. So, you can't obviously make them
21 so small that no one could read them.

22 Let's see here. Additional resources, as you're
23 trying to comply, that technical FAQ I pointed out on
24 the website, and I've provided a link directly to it
25 here is a great resource. It goes into all of the

1 questions I receive on a regular basis and we actually
2 asked manufacturers about questions they had about
3 regulations and formulated this FAQ. It's a great way
4 to see -- you know, before you contact the CEC run
5 through this document, see if your question is perhaps
6 answered in this technical FAQ.

7 Also, we're available through e-mail and
8 telephone. Myself and Harinder Singh, we handle the
9 technical questions, and I put our e-mail and number up
10 here. Many of you have already contacted us, but if you
11 didn't know how to, here's the information.

12 Also, for certification and general questions
13 about the Appliance Efficiency Program send those e-
14 mails to Appliances@energy.ca.gov and they will be
15 answered through that.

16 And I want to note, too, these are new e-mail
17 addresses. You may have been sending it to a different
18 e-mail address. Don't panic, those still work, but
19 these are our new e-mail addresses as well.

20 They both -- if you were using a different,
21 similar e-mail those will continue to work as well, but
22 going forward these are officially our e-mail addresses
23 now.

24 All right thank you and I'm going to turn this
25 over to Peter. Or, no, I'm going to turn it over to

1 Gary Flamm who's going to give us some background on the
2 lighting control portions of this regulation.

3 MR. FLAMM: Thank you. So, lighting controls
4 have been required by the California Title 24 Building
5 Energy Efficiency Standards for many years.

6 There are requirements to install both manual
7 and automatic lighting controls in the building
8 standards when you build a building and there are
9 requirements for those specific devices that they must
10 meet.

11 I want to go over -- there's a transition, now,
12 where the lighting control devices have been regulated
13 by Title 24 for many years and they've had to be
14 certified to the Energy Commission in accordance with
15 the requirements in Title 24.

16 So, the database that houses lighting controls
17 is the same database where we house everything else, so
18 that's irrelevant where we keep it. It's just that
19 Title 24 lighting controls and now Title 20 lighting
20 controls are going to be housed in the same database.

21 But there's a transition, now, where we're
22 moving some of the control requirements from Title 24 to
23 Title 20.

24 So, the first thing I want to talk about is a
25 self-contained lighting control device. They have been

1 certified in accordance to the Title 24 requirements for
2 many years and there are many self-contained lighting
3 controls already in our database that have been
4 certified according to the Title 24 standards.

5 So, a self-contained lighting control has a
6 specific definition in the standards. It's basically a
7 single module.

8 So, currently Title 24 is -- well, not
9 currently, but Title 24 is regulated according to the
10 date that the building permit is filed for.

11 So, the date you applied for your building
12 permit, the Title 24 regulations that are in effect on
13 that date are the regulations that must be complied
14 with.

15 And so between now and when the new appliance
16 regulations take effect for new lighting controls,
17 lighting controls are required to be certified by the
18 manufacturer according to the Title 24 Building Energy
19 Efficiency Standards, so that remains the same.

20 So, anybody that gets a building permit on or
21 before -- actually before February 1st, 2013 has to have
22 their devices certified according to the Title 24
23 standards.

24 On February the 1st, 2013 the new regulations,
25 Title 20 regulations go into effect.

1 So, the regulations are almost identical,
2 there's not much difference between what's currently in
3 Title 24 and what's going into Title 20 other than Title
4 20 applies to the manufacturing date of a product.

5 So, lighting controls that are manufactured on
6 or after February the 1st, 2013 must be certified to the
7 Energy Commission according to the Title 20 regulations.

8 So, we've got this transition period. So,
9 building permit date up to the manufacturing of 2013,
10 manufacturing date thereafter, so that's the transition
11 date.

12 There are also lighting control systems that are
13 required in Title 24 and lighting control systems are
14 anything from a lighting control that has two components
15 to an energy management control system.

16 Currently, Title 24 says that if you have a
17 lighting control system, to be recognized by Title 24
18 that entire system has to be certified to the Energy
19 Commission and the model number needs to represent every
20 component that is necessary to make that system
21 functional in accordance with the requirements in Title
22 24.

23 Lighting control systems are not to be regulated
24 by Title 20. They shall continue to be regulated by
25 Title 24.

1 However, there is also a transition date in
2 Title 24 when the new standards go into effect on
3 January 1st, 2014 for any building permit obtained on or
4 after January 1st, 2014 the lighting control system is
5 no longer required to be certified to the Energy
6 Commission.

7 However, a licensee of record, who is working on
8 the building, needs to sign that the lighting control
9 system meets all of the functionality of that system.

10 So, there are two transition periods and I think
11 that's what I was hoping to clarify.

12 So, if there are any questions, are we talking
13 questions on the phone or -- so, if anybody has any
14 questions right now or you can contact myself -- did you
15 put my -- oh, no phone number. You can contact the
16 appliance folks or if you know me, most of the lighting
17 folks know me and you can contact me and ask me
18 questions.

19 Does anybody have any questions on lighting
20 controls right now?

21 MR. STRAIT: Just one second, we're going to
22 unmute the phone lines so that anyone that is calling
23 in, that may have a question about lighting control
24 devices can ask their question. One moment.

25 MR. LEAON: And for those of you that will be

1 asking questions remotely be sure to identify yourself
2 and your organization.

3 MR. STRAIT: Okay, one second, there seems to be
4 a lot of noise on the line currently. Anyone that is
5 dialing in -- okay, someone's not muted. One moment.

6 MR. LEAON: If you're listening remotely, if you
7 can mute your phone unless you want to ask a question,
8 we're getting a lot of background noise.

9 Once again, we're getting a lot of background
10 noise in the room, if you're on the phone, if you can
11 mute your phone.

12 MR. STRAIT: I apologize folks, we seem to be
13 having some problem re-muting the lines and we're not
14 sure why. This should be -- this noise we're hearing on
15 the line should not be occurring and we're not sure why
16 it's occurring. One moment and we'll try to fix the
17 issue.

18 We may need to have people leave and rejoin the
19 conference in order to solve this, but I'm trying to
20 work right now to prevent that from happening. One
21 moment, please.

22 MR. LEAON: So, we're having a little break here
23 in the workshop while we're trying to resolve the
24 technical difficulty. Bear with us, please. Thank you.

25 (Resolving technical difficulty.)

1 MR. STRAIT: All right, I think we have this
2 resolved. I apologize, it looks like we might have some
3 difficulty taking questions over the computer audio. If
4 you are attending on your computer you can type in a
5 question into the chat box, also you can e-mail
6 questions to us, or if there is a raise-your-hand button
7 you can click, if you click the raise-your-hand button,
8 I can find that microphone and try to unmute that person
9 and allow them to speak.

10 MR. LEAON: Okay, so I think at this point we
11 are going to take questions on the lighting controls and
12 why don't we go ahead and take a few questions on
13 lighting controls.

14 What I would like to do next is to go ahead to
15 move to Peter Strait's presentation on certification.
16 So, if you can hold your questions to strictly lighting
17 controls at this point we'll do the certification part
18 of the agenda and then we'll take -- well, we'll be to
19 the open discussion part of the workshop at that point
20 and we'll take questions on battery charger systems.

21 So, do we have any questions? First, let's
22 start in the room, do we have any questions on lighting
23 controls in the room?

24 Okay, I don't see any questions in the room.

25 For those of you that are participating

1 remotely, again if you can click the raise-your-hand
2 icon, we will try to unmute you, or if you can chat a
3 question. And again, at this point we're just taking
4 questions on lighting control systems.

5 Do we have any questions, Peter?

6 MR. STRAIT: None at this time.

7 MR. LEAON: Okay. You can always ask any
8 questions on lighting controls during the open
9 discussion part of the workshop.

10 But what we'll do at this point is let's finish
11 with our presentations and then we'll open up the
12 workshop for open discussion.

13 So, at this point I'd like to introduce Peter
14 Strait, the Compliance Program Lead Person for the
15 Appliances Program. So, Peter.

16 MR. STRAIT: So, I'm going to be talking about
17 how you actually certify, submit data to the Energy
18 Commission.

19 As a quick note to the lighting control folks,
20 the self-contained lighting controls, we are not
21 changing the current certification procedure for those
22 devices, those will be the same if you've already
23 submitted data before.

24 In this presentation I'll be using the small
25 battery charger systems as an example to walk through

1 how you need to fill out the materials to submit to us.

2 So, first we are asked, what is certification?

3 Certification, you know, it's a verb. When we use the
4 word "certification" we mean to attest, ascertain, give
5 reliable information of or confirm, and to testify or
6 vouch for in writing.

7 This definition on the screen here is from
8 *Dictionary.com*.

9 So, certification to the Energy Commission means
10 that manufacturers of regulated appliances must certify
11 their model's performance data to the Energy Commission
12 before the models can be sold.

13 This means we both need data about your unit and
14 we need your signature saying I attest that this
15 information is truthful and accurate in describing my
16 products.

17 Data submittals usually have two parts for this
18 purpose. We have a declaration which records who you
19 are and records your signature, and we have a data file
20 where you enter in all the data relating to your
21 products.

22 If you are submitting on behalf of someone else,
23 we call that a third-party certifier, a third-party
24 submittal and a third-party submittal has a third part
25 where the manufacturer says I am authorizing this

1 submittal of information on my behalf.

2 So, I'm going to just jump directly to the forms
3 and walk through the certification for small battery
4 chargers.

5 So, we're going to walk very quickly through the
6 data file first and then we'll take a look at the
7 declaration.

8 The data file, we offer a blank Excel template
9 in the certification packet for submitting small battery
10 charger data. It has a number of columns. Each of
11 these represents a piece of information we need to know
12 about your unit.

13 All appliances start with an action column that
14 tells us whether what you're asking us to do is add a
15 new unit, change something about an existing listing, or
16 delete a listing because you are no longer making that
17 product.

18 Next we have manufacturer and brand columns. We
19 get some questions about how you acquire the three-
20 letter codes that we use for manufacturer and brand, and
21 what those mean.

22 Essentially, these just help our database store
23 information more efficiently. We assign a three-letter
24 code to any longer name that somebody might want
25 displayed for their product.

1 If you need to request a name or a code for a
2 name because you haven't had one assigned, simply send
3 it with your submittal, send it -- like in the e-mail
4 ask I would like this name used for the manufacturer and
5 we'll assign that code.

6 Please, don't make up your own codes because
7 this is a common data table used by all of our
8 appliances and so a lot of these codes have already been
9 assigned.

10 Next we have, for small battery chargers we have
11 two columns for model number. For most other devices we
12 have one column for the model number.

13 The model number for small battery chargers is
14 broken into two because some manufacturers let us know
15 that they have a separate number for their charger that
16 is distinct from the product that they might be selling
17 it with or including it as a part of.

18 So, this is effectively there for your
19 convenience.

20 The model number should be the model number of
21 the battery charger that is being regulated. This will
22 usually be the same as the CP model or the consumer
23 product model number, which will be what the consumer --
24 what will actually face the consumer in the store.

25 This allows consumers to match up what they see

1 on a shelf with what they see on our database and learn
2 more about your products.

3 For model numbers we can use asterisks.
4 Asterisks are used when they are a set of models that
5 might differ in some superficial way that still creates
6 a new model number.

7 The example that we use is simply to say if you
8 have three types of battery chargers with different
9 colored cases and that's represented in the model
10 number, you can use a single model number listing for
11 all of them by using asterisks.

12 We need an asterisk to be used only for the
13 characters that are changing between units and we need
14 one for each character. It's having one to represent
15 like a string of characters that might follow,
16 unfortunately, might cause some problems if people can't
17 find them in the stores.

18 Next we have a column for product type. Product
19 type for battery chargers is simply telling us what
20 other item this charger might be in or if it's a charger
21 that just charges, for example, AA or AAA cell
22 batteries.

23 This is an open field; you can type anything
24 into this that you care to. I believe the character
25 limit is 30 characters.

1 In this example that I'm using, this was a
2 listing that was submitted to us a few weeks ago. This
3 product was a hairdryer.

4 The next field is for battery chemistry. This
5 is a fairly good example of a coded field. A lot of the
6 fields, much like the manufacturer and brand columns,
7 use small codes for easy storage in our database.

8 For compatible battery chemistries there's a
9 two-letter code for each of the common chemistry types.
10 If your type is not on this table or your type -- or
11 your charger can handle multiple types of battery
12 chemistries, simply enter other.

13 Or if it's a type that's common in the
14 marketplace that we haven't accounted for, yet, we can
15 actually add additional entries to this table, we can
16 assign new codes here. Simply let us know if there's
17 something that we're missing.

18 The next four columns actually match up with
19 those distinctions Ken was making earlier about the
20 different types of battery chargers that are handled a
21 little bit differently in our regulations.

22 Each of these is a true/false column. It's
23 simply telling us does your battery charger meet the
24 definition of an a-la-carte charger? Does it meet the
25 definition that we have of an inductive charger? Does

1 it meet the definition that we have of a USB-based
2 charger? And does it meet the definition of a battery
3 backup or uninterruptible power supply?

4 Each of these we explain in the instructions for
5 filling out the data file what we mean by that, so you
6 don't have to go back to the regulations, necessarily.
7 This should let you know whether or not to enter a true
8 or a false.

9 And what that does is it allows us to apply the
10 correct standard when we go to validate your submittal
11 to us and enter it into our database.

12 Next is total number of charger ports. As Ken
13 mentioned, this is a little tricky because we have
14 issues of multi-use chargers and batch chargers.

15 But in this particular case, since this is a
16 personal grooming product, there's simply one port
17 because this is a fully integrated battery charger into
18 this device.

19 Next is the battery capacity and watt hours and,
20 actually, all of these columns here that are taking
21 numeric data, this should come directly from performing
22 the test. Simply get your test results and enter them
23 in these fields.

24 A couple of things to point out, these need to
25 be numbers. We don't want you to say 1.52 watts or put

1 a "w" in there. Our database is expecting just to see a
2 number and process it that way.

3 So, if this is your maximum battery capacity, as
4 Ken had discussed, this is the 24-hour charge and
5 maintenance energy as determined by the test procedure.
6 I'm sorry, there we go.

7 This one is the maintenance mode power
8 consumption. And this column is the power consumption
9 in the no-battery mode or the off mode.

10 The test procedure will describe when those are
11 determined. In most cases this should be in the no-
12 battery mode. Very rarely should this be the off mode
13 power consumption, but there are some cases where that
14 would be appropriate.

15 The final two columns are coded fields. Again,
16 these simply take a letter code. The first lets us know
17 which marking options you've chosen.

18 As Ken discussed, because you can either put
19 that BC mark on the charger or on the package, we have
20 options there for that.

21 Or if you've decided to put the mark in both
22 places, you can tell us that you've both put it on the
23 front and on the packaging.

24 The last is a column that's mainly used by our
25 database internally when it's comparing different

1 appliances. This simply tell us whether or not --
2 whether the appliance is federally regulated as a
3 consumer product, federally regulated as commercial or
4 industrial equipment, regulated by the State of
5 California or not regulated at all.

6 This "N" lets us know that this is regulated by
7 the State of California because it is not federally
8 regulated.

9 If it was not regulated at all, we would have a
10 "V" code for voluntary. But right now there are no
11 voluntary types of data we're accepting for battery
12 chargers. We should only be getting information about
13 chargers that are regulated.

14 This may change in the future but for now, if
15 you're submitting data, this column should be an "N."

16 So, that's -- those are all the columns here.

17 For the interest of time, I'm not going to be
18 walking through the large battery charger systems, but
19 the columns are similar and the ideas about filling them
20 out are similar.

21 Some columns are going to take codes, some are
22 simply going to take numeric data. And the large
23 battery chargers are actually a bit simpler because they
24 don't have, for example, this consumer product model
25 distinction.

1 So, hopping back into the presentation, I have
2 placed in the PowerPoint presentation links to these
3 documents that I'm looking at. So, when you download
4 the presentation you'll have links that will take you
5 directly to what we're looking at as part of this
6 presentation.

7 And right now, since I've just gone over a lot
8 of information about how to fill out the data file, I'd
9 like to take a break and see if anyone has any questions
10 about what I've just gone over.

11 So, one moment here.

12 MR. LEAON: Why don't we start in the room,
13 Peter.

14 MR. STRAIT: Sure.

15 MR. LEAON: Do we have any questions in the
16 room?

17 Okay. And do you want to try and unmute the
18 lines or do you want people to chat, or click the raise-
19 the-hand icon?

20 MR. STRAIT: They can raise-the-hand icon or
21 they can enter in a question to the chat field or simply
22 indicate in the chat field that they would like to ask a
23 question over the phone line and then I can unmute their
24 line.

25 Given the technical difficulties that happened

1 last time when we tried to unmute everyone, I'd like to
2 avoid doing so.

3 MR. LEAON: Okay. So, if you're participating
4 remotely and you'd like to ask questions at this point
5 on the certification forms, we're going to go ahead and
6 take questions.

7 MR. MAMMOSER: Peter?

8 MR. STRAIT: Yes?

9 MR. MAMMOSER: This is Joe Mammoser at Waterpik.

10 MR. STRAIT: Greetings.

11 MR. MAMMOSER: I have a couple of questions
12 about the data form to fill out.

13 MR. STRAIT: Okay.

14 MR. MAMMOSER: On one of our products we
15 purchase a charger from a transformer manufacturer, a
16 wall brick, if you will, that's used with our oral
17 appliance.

18 MR. STRAIT: Okay.

19 MR. MAMMOSER: Now, in the Excel spreadsheet
20 where you ask for the model number of the charger, are
21 you wanting the model number of that particular
22 component or the model number of our product?

23 MR. STRAIT: Either will work. The consumer
24 product model number should be what faces the consumer.

25 If you sell, for example, a replacement charger,

1 like a replacement bay station separately, and you want
2 to have that model number entered in as the model number
3 of the battery charger, you can do it that way, or you
4 can put the consumer-facing model number in both fields.

5 MR. MAMMOSER: Okay. All right, that makes
6 sense.

7 Now, a second question, the last column where
8 you're asking if it was a federally-regulated product,
9 the comment on the slide said it should be "no" for all
10 small battery chargers. But our products are federally
11 regulated as a class one medical device. Should I just
12 put in "Y" for yes?

13 MR. STRAIT: No, we're -- this is specifically
14 whether the battery charging component is federally
15 regulated.

16 MR. MAMMOSER: Okay, I follow. Okay, then it
17 would be no, that's a commercially available component.

18 MR. STRAIT: Right.

19 MR. MAMMOSER: Okay. Well, those were the
20 questions I had, thank you.

21 MR. STRAIT: Okay, thank you very much.

22 I'm getting a couple of questions by chat. One
23 is from a Paul Zainea that is asking whether lead acid
24 includes subsets like AGM, gel and another type of
25 battery?

1 Yes, the battery chemistries are broad
2 categories, it's intended to cover everything that might
3 be under the general category of, for example, a lead
4 acid battery.

5 If there's a -- if we get requests from
6 manufacturers to break these down and assign additional
7 codes because those would be useful for consumers, we
8 can do so, but we don't want to require people to go
9 into more detail than I think would be useful.

10 I have a question from Lisa, who asks, "Have the
11 certification files been changed since they first time
12 they were released in August?"

13 Yes, we have made some minor updates to the
14 files since they were originally released. We've added
15 some clarifying language as a result of some of the
16 questions we've received and we fixed a few typos.

17 So, if you haven't downloaded them recently, I
18 would recommend doing so. And, generally, check on the
19 files every couple of months to see if they have
20 updated.

21 Where you go to download these packets, and I'll
22 show you the place on the website at the end of the
23 presentation, we list when the files were last updated.
24 So you can, at a glance, tell whether or not there's
25 something new to download.

1 We have a question from a gmcmcmurray [sic].

2 "If we ship our charger with 2000 milliamp hour nickel-
3 metal hydride batteries, but it will work with a 1352 or
4 2500 what test data do you want?"

5 I believe per the presentation and per the test
6 procedure we're looking for the higher number, so that
7 it will cover the performance of your device at all
8 those levels.

9 If you want to submit at different value levels
10 because the performance differs significantly between,
11 for example, the 1350 or the 2500, we don't anticipate
12 that being the case, but simply talk to us and we can
13 discuss, individually, what would be appropriate for
14 your product.

15 (Off-microphone comment)

16 MR. STRAIT: Ah, okay, and in this particular
17 case, if this 2000 milliamp hour battery is what's
18 packaged with it, typically, we require that the test be
19 performed with whatever the consumer would be buying off
20 the shelf.

21 So, if it's packaged with that 2000 milliamp
22 hour battery, then that would be the one you would want
23 to use for the test.

24 From Dan Jakl, he is asking, "For multiple
25 chemistries should we add a row in the same cell or

1 another Excel row?"

2 For a multiple chemistry charger you can do it a
3 few ways. Typically, we simply ask that you put
4 "other". We can add a code if we see a lot of these
5 that would represent multiple chemistries.

6 Or if you want to list it separately, on
7 separate lines, you can do that as well.

8 And I'm going to check and see if anyone else is
9 raising their hand to speak. I don't see any phone
10 callers raising their hands, but I'm continuing to
11 receive questions by chat.

12 MR. MAMMOSER: Peter?

13 MR. STRAIT: Yes?

14 MR. MAMMOSER: This is Joe Mammoser at Waterpik,
15 again.

16 MR. STRAIT: Oh, greetings.

17 MR. MAMMOSER: One more question, the wall
18 transformer that I was referring to in my questions
19 earlier, the wall brick, plugs into the wall and then we
20 charge our batteries by a low voltage wire that comes
21 out of that and connects to a socket on our unit.

22 MR. STRAIT: Right.

23 MR. MAMMOSER: Is that considered a USB charger?

24 MR. STRAIT: Is it making use of a standard USB
25 or micro USB connection?

1 MR. MAMMOSER: No.

2 MR. STRAIT: Then no, it is not.

3 MR. MAMMOSER: It's a specially designed
4 connection.

5 MR. STRAIT: Yeah, in that case then, no, it
6 would not be a USB charger.

7 MR. MAMMOSER: Okay, thank you for the
8 clarification.

9 MR. STRAIT: No problem.

10 We have a question from Tri Pham about how to
11 qualify product families and which model should be
12 tested to represent the entire product family?

13 If this is a question about large battery
14 chargers, I think that would be best answered by one of
15 our engineers, but that might be a bit of a technical
16 discussion.

17 Because families can vary so much, simply talk
18 to us ahead of time and we can figure out what would be
19 the best and most appropriate way for you to certify
20 your products.

21 So, I don't see anyone else raising their hand.

22 Oh, here, I actually do have a hand raised. This is
23 Lisa. I'm going to unmute your line so that you can
24 speak.

25 Hello, Lisa, are you there?

1 LISA: Hello?

2 MR. STRAIT: Hello, you're live.

3 LISA: I don't have a question.

4 MR. STRAIT: Oh, okay, I'm sorry, I thought you
5 had your hand up.

6 LISA: Sorry.

7 MR. STRAIT: Oh, no problem.

8 All right, we have a question that asks, "If our
9 charger also has USB output ports, are they to also be
10 loaded? This is 115 volt input."

11 I'm not sure. If these are USB output ports,
12 they would not be battery chargers, necessarily. The
13 fact they could power a USB device that could also be a
14 battery charger, I don't think would change how the
15 product was configured.

16 MR. RIDER: I can answer these in the more
17 technical -- these aren't certification questions.

18 MR. STRAIT: Right.

19 MR. RIDER: I'll take those kinds of technical
20 questions in the --

21 MR. STRAIT: Okay. Technical questions aren't
22 related to certification and we're just going to take
23 them at the end of the presentation.

24 So, I'm going to go ahead and go back into our
25 slide deck here. Oh, one moment.

1 All right, the second element of getting your
2 product certified is filling out the declaration and
3 making sure that you're using, for example, an approved
4 test laboratory and approved third-party certifiers.
5 And so I'm going to walk through what those mean really
6 quick.

7 Test laboratories that are used to generate
8 battery charger data must be approved by the Energy
9 Commission. The only consequence is that if they're not
10 approved by us, then we can't accept data from them
11 until they are approved.

12 We have a test laboratory approval application
13 and I'll pull it up in just one second.

14 Approval is awarded for a single calendar year.
15 That means, for example, right now the timing's a little
16 bit unfortunate for when the battery charger regulations
17 are taking effect because we expect that a lot of people
18 will need certification -- will need approval for 2013
19 very shortly here.

20 But you don't have to fill out the application
21 or begin the approval before submitting data. The
22 application can accompany the submittal of data.

23 And we anticipate having the applications for
24 the year 2013 available in a couple of weeks.

25 We often get asked if manufacturers are able to

1 use an internal laboratory or if they have to seek an
2 independent laboratory?

3 We are able to accept data from internal
4 laboratories from manufacturers. They're expected to
5 apply for approval, the same as anyone else.

6 Because the approval application is ultimately
7 pretty simple.

8 And I'm just opening this guy right here. I
9 should be able to open this guy right here. Well, since
10 the link in the document did do what I hoped it would,
11 I'll show you how to get there.

12 From the Energy Commission's home page, for any
13 of our forms, you'll go like Ken showed; you'll hover
14 over this "efficiency" tab. You'll go to our "appliance
15 efficiency" page. And all of our forms and instructions
16 are available under "compliance."

17 Under compliance we have materials for
18 manufacturers, third-party certifiers and test
19 laboratories. So, the test laboratory application that
20 we're looking at for small battery chargers would be
21 this Consumer Electronics Test Laboratory Application.

22 Large battery chargers would be expected to use
23 the generic Test Laboratory Application.

24 Each test laboratory application starts with
25 some instructions, but then we simply have a place where

1 you identify the laboratory and fill out the contact
2 information for them.

3 Tell us the types of appliances that you plan on
4 conducting test for and the test method that you'll be
5 using to conduct that test.

6 For example, for small battery chargers clearly
7 the test procedure is the Uniform Test Method for
8 Measuring the Energy Consumption of Battery Chargers.

9 Note that if you told us that you were testing
10 small battery chargers but using, for example, the power
11 transformer test procedure, we would have to return the
12 app. saying we can't approve you to use this test to
13 produce these sets of data.

14 The second page is simply listing what you are
15 agreeing to by applying for approval.

16 You're agreeing that you've conducted the test
17 using the applicable test method at least once in the
18 prior 12 months. That way you know that you can do it.

19 You are going to apply the applicable test
20 method as written.

21 You have all the equipment necessary and
22 facilities necessary to perform the test that you're
23 applying for.

24 You're going to maintain copies of all the test
25 reports that result from your tests and provide them to

1 us, on our request, if we ever need them.

2 You will agree to allow someone from our office
3 to witness any such test of an appliance, on our
4 request, up to once per calendar year.

5 We very, very rarely do this. This is only in
6 the case where there's something we need to observe
7 about a test, but it is something that you're agreeing
8 to when you're applying.

9 And you'll agree that you'll follow all of the
10 provisions in the regulations, effectively.

11 You put your laboratory name at the back, you
12 have a signature, you date it, we date it, we sign it
13 and then we add you to our approval list.

14 Our approval list is typically updated once
15 monthly, but you can use the response letter that you
16 will get back from us, which will include a fully signed
17 copy of the document, including our signatures, as your
18 evidence that you are an approved laboratory.

19 And so back over here. Third-party certifiers,
20 that is people that are certifying data on behalf of
21 manufacturers, must also be approved by the Energy
22 Commission. Their application looks almost identical to
23 the test laboratory application and I'll pull that up in
24 just one moment.

25 Just like the test laboratory application, the

1 approval is good for the calendar year that it applies
2 to.

3 And the submittal then has to be authorized by
4 the manufacturing using a separate form, and I'll get to
5 that in one moment.

6 Let's see if it will work this time. Yes, I
7 would like to open this file.

8 All right, the third-party certifier
9 application, on this instructions and forms page, is
10 right here, Application for Approval as a Third-Party
11 Certifier.

12 And just like the test laboratory approval
13 application there's a space for telling us who the third
14 party is. We have checkboxes to tell us if you are an
15 appliance manufacturer or trade association, an
16 appliance test laboratory, or neither of those.

17 These checkboxes are mainly because we mostly
18 see test laboratories as the people that are third-party
19 certifiers, so it makes it easier for them to check that
20 than to have to explain who they are and why they're
21 applying.

22 There isn't something -- this isn't something
23 that will disqualify you or that your approval will
24 hinge on, we simply need to know who you are and why it
25 is that you are submitting on behalf of another party.

1 The third-party certifier is agreeing that it
2 has read and understood all of the regulations that
3 apply to what they're doing. They're financially and
4 technically capable of complying with the applicable
5 requirements for third-party certifiers.

6 You have an agreement with the manufacturers
7 that you represent that allow you to challenge the
8 truth, accuracy, and completeness of information
9 submitted to you by the manufacturer and refuse to
10 submit to the California Energy Commission information
11 that it believes is not truthful, accurate, or complete.

12 And you agree that you'll provide, upon ten
13 days' written notice from the Executive Director to the
14 California Energy Commission, all information provided
15 by a representative from the manufacturer and all
16 information related to any challenges made pursuant to
17 the preceding paragraph.

18 This is another thing that very rarely occurs.
19 This would only happen in the case that we had something
20 we were investigating related to a manufacturer, so that
21 we can obtain all of the material that might be
22 relevant.

23 As before, you sign it, you date it, you put the
24 name of your company here. We date it, we sign it, and
25 you get added to this same list that the approved test

1 laboratories show up on.

2 I don't know why I keep hopping back to this
3 slide when I get out of here.

4 So, as a third-party certifier, when you submit
5 data on behalf of a manufacturer, the manufacturer
6 delegates the authority to certify their data to you
7 using this. I think these are popping up over here.
8 Here they are.

9 This is a Manufacturer Delegation of Authority
10 Form and this goes hand-in-hand with the declaration,
11 and we'll look at the declaration last, because that's
12 what brings all of these together.

13 The manufacturer tells us who they are. They
14 say, explicitly, that they hereby authorize and request
15 the third party to submit to the Energy Commission the
16 attached information on behalf of their company.

17 It has some provisions that are very much like
18 those found in the declaration, stating that everything
19 is truthful and accurate, the appliances were tested
20 under the applicable test method, the appliance
21 requirements of the Appliance Efficiency Regulations are
22 being complied with.

23 And they provide this form to the third party,
24 who then includes a copy of this form when submitting to
25 us. This shows chain of custody, so that there's a

1 guarantee that no one can alter or submit data on
2 someone else's behalf without their knowledge and
3 permission.

4 And, finally, I'll hop over to the declaration.
5 For all of our submitted appliances the declaration page
6 is actually on the last two pages of the instructions
7 for filling out the data file.

8 In the declaration we have a spot for who the
9 certifying company is, that is the company submitting
10 information to us. There's a checkbox if the party is a
11 third-party certifier.

12 If this is a third-party submittal and the
13 manufacturer is not the certifying company, there's a
14 portion for entering manufacturer information.

15 This does not -- this only needs to be filled
16 out if this is a different company from who is
17 certifying.

18 We have a space at the bottom for identifying
19 the test laboratory. This always need to be completed,
20 even if it's the same information as was entered for the
21 certifying company or the manufacturer, we would need
22 the statement that the test laboratory is the same
23 entity, so this always needs to be filled out.

24 The second half -- the second page of the form
25 states that you are declaring, by signing the form,

1 under penalty of perjury with the laws of the State of
2 California, basically that the information that you're
3 submitting is true, complete and accurate, that the
4 models have been tested the way that they are intended
5 to be tested, that the units are marked the way they're
6 required to be marked, that the portion of it that's
7 being filed electronically, the regulations regarded
8 electronic submittal are being complied with.

9 And these regulations simply say that you are
10 providing scans of signed documents and that sort of
11 thing.

12 That the appliance meets all of the applicable
13 standards that are present in the regulations.

14 If it's a third party, and these are the same
15 assurances that are on the manufacturer delegation of
16 authority, basically that they're the third party and to
17 the best of their knowledge and belief the information
18 is truthful and accurate, that the requirements related
19 to third-party submittals are being met.

20 And that attached to this declaration is the
21 form that is that manufacturer delegation of authority
22 form that authorizes the third party to submit the
23 information to the Energy Commission on behalf of the
24 manufacturer.

25 Lastly, if the party submitting this statement

1 is a corporation, partnership or other business entity,
2 I am authorized to make this declaration and to file
3 this statement on behalf of the company named below.

4 We're sometimes asked at what level it is
5 appropriate for the signature to come from or who has
6 that authority?

7 By signing this form, the person signing it is
8 saying they have been given the authority to make these
9 binding statements for the company they're representing.

10 So, in short, a data submittal is going -- a
11 submittal of data to us, a certification will have a
12 filled out declaration, one of these. It may be
13 accompanied by a manufacturer delegation of authority,
14 or an approval application as a test laboratory, a third
15 party, and it will have the data file that we went
16 through earlier.

17 So, I'm going to skip this question very quick,
18 I'll get right back to it. But, first, I want to go
19 over some of the common errors that we see in the
20 declaration and in the data file.

21 In the declaration a lot of times -- oh, and
22 when something is incorrect or something isn't able to
23 pass our validation we return the information to the
24 manufacturing, letting them know that we weren't able to
25 process it and give them the opportunity to submit

1 corrections.

2 For example, if you submit a test laboratory
3 application and there's something you forget to mark,
4 it's not as though you're going to be disapproved or on
5 a waiting list, you simply need to make the corrections
6 and resubmit information to us. We will accept
7 corrected data at any time.

8 The most common reasons we find for having to
9 return a declaration page is that either the test
10 laboratory info is incomplete or is absent; something
11 makes it unclear whether the submitter is acting as a
12 third party or is representing their own company and the
13 document does not have a wet signature.

14 What we mean by this is we need a scan of a
15 signed document. Some people do try to use a digital,
16 like a VeriSign type of stamp on the document.
17 Unfortunately, we're not able to accept those at
18 present, as we don't have a good way of verifying those.
19 We need a scan of a signed document.

20 You do not need to mail in the actual wet
21 signature, however.

22 In the data file we'll often see cases where
23 there's incomplete information or someone will miss
24 filling out one of the data fields. For small battery
25 chargers, basically, you need to fill out the full

1 thing.

2 For appliances, in general, the instructions for
3 filling it out will tell you whether the column is
4 voluntary and which appliances need to fill out which
5 columns.

6 We'll see cases where multiple models are
7 submitted in a single listing. We can accept a listing
8 representing multiple models using asterisks, but
9 sometimes we'll have someone try to cram three, four or
10 five different model numbers into one line, where if you
11 have a separate model number, it really needs to be on a
12 separate line of the document.

13 We can take any number of lines in one of those
14 Excel files. For example, from one of the trade
15 associations we work with we'll often get files that
16 have over 8,000 entries in them for certain types of
17 HVAC equipment.

18 Lastly, is incorrect information type entered
19 into a column. The columns will tell you or the
20 instructions will tell you what kind of information
21 we're looking for, whether it's numeric information or a
22 text code. And it will also specify how many digits, if
23 it's a numeric data, we expect it to be rounded to.

24 A lot of times we will have to send things back
25 because people will have formulas entered into cells, or

1 they'll have unrounded numbers, or instead of using the
2 code for a given entry they'll spell out "it's a
3 lithium-ion battery" instead of putting in LI.

4 Some of those we're able to correct ourselves,
5 but because these are coming in under your signature
6 there are very few corrections we can make on your
7 behalf without seeking your permission or approval to
8 make changes to what you've sent to us.

9 So, in most cases this will cause it to be sent
10 back to you.

11 I've already gone through a quick tour of where
12 to find things on our website. What I haven't shown
13 folks is the database that these guys will show up in.
14 So, I'll show you guys the database and I'll open things
15 up for another set of questions.

16 From the "appliances" page you can access the
17 Appliance Efficiency database with this link here.

18 Oh, wow, that's unfortunate. Now, I'm not sure
19 why this isn't able to be brought up in the room right
20 now, but I would encourage you to check out the
21 Appliance Efficiency database from that link.

22 The information that you submit to us is exactly
23 what we put up online. Manufacturers are responsible
24 for the accuracy of their listings. We don't make edits
25 in most cases, like I said before, to the information we

1 receive. But there is a process if you need to change
2 anything -- if you need to change anything about a
3 listing, you can simply submit a change action for that
4 listing as described in the instructions for submitting
5 data.

6 And I've also included in this e-mail how to
7 contact us. The easiest way to get in touch with the
8 Appliance Efficiency Program is by our e-mail. If you
9 have questions about documents you're submitting, or
10 want us to take a look at something, or you have a
11 question about what you need to put in, e-mail it here.
12 We have multiple staff that are able to take a look at
13 this e-mail address and can help you promptly.

14 There is a phone hotline that we have, also,
15 that is staffed and I've got this number in here.

16 Basic questions about how to fill out forms and
17 what's expected in what you're filling out can be sent
18 there.

19 The technical questions should be sent, still,
20 for battery chargers to our engineers, as they gave
21 information for it before.

22 And now we'll go ahead and open this up to
23 questions about certifying and about these documents
24 that I've talked about.

25 MR. LEAON: Okay, why don't we start in the

1 room. If you have a question in the room, if you could
2 come up to the microphone, state your name and
3 organization. And we do have a court reporter here
4 today, so if you could also provide your business card
5 to the court reporter.

6 So, any questions in the room?

7 MR. STRAIT: Okay, we have one person coming up
8 to the podium in the room here. I also have two raised
9 hands from the speakers online, and I've got two
10 questions so far that have been typed out for us.

11 MS. JENKIN: Alison Jenkin, Huawei. What is the
12 document retention requirement for the testing? I mean
13 is it three years, five years, forever?

14 MR. STRAIT: The document retention, let me pull
15 up the regulations so that I can read it from there
16 directly.

17 The document retention is for as long as the
18 particular appliance is -- or, rather, the document
19 retention for the manufacturer and for the test
20 laboratory is for the period that the product remains in
21 production and available in the marketplace plus two --
22 I think plus a set of years and I want to say it's plus
23 two years, but let me go there.

24 I apologize, I'm hunting through the regulations
25 to try and find it. Actually, let me show the desktop

1 so that people can see what I'm doing.

2 Here we go. "Retention of Records;
3 manufacturers and third parties, or trade associations
4 acting under the sections that apply to them shall
5 retain all data, forms, information, all of the records
6 required by this article concerning each appliance, (1)
7 for at least two years after the manufacturer informs
8 the Executive Director, in writing, of the cessation of
9 production of the appliance, and in a manner allowing
10 ready access by the Executive Director on request."

11 Now, what this means about informing the
12 Executive Director in writing, this means you have to
13 keep it for at least two years after you submit a
14 request to us to delete that listing for the appliance.

15 Our record retention is a little bit different.
16 "The Executive Director shall retain all data, forms,
17 information, all of the records required by this article
18 concerning each appliance for at least ten years after
19 the record is initially filed or reconfirmed."

20 So, our recordkeeping is ten years from the
21 initial filing that you make with us meaning that if you
22 have a product that you have in production for 15 years,
23 it's theoretically possible that our record retention
24 will run out before yours does.

25 We've, I don't think, ever seen that being the

1 case, however. And, instead, we've actually been asked
2 several times by folks -- for example, someone buying a
3 house will say I notice the water heater in here is this
4 model, what can you tell me about it? And it might be a
5 15-year-old model but we can still have some information
6 we're able to find out about it.

7 All right, I'm going to pause the sharing of the
8 desktop and take another question.

9 MR. LEAON: Okay, any other questions in the
10 room?

11 MR. STRAIT: One was handed about clarifying who
12 the manufacturer is? I'll get to that in just one
13 moment because that is a fairly complicated topic in
14 some cases.

15 Most of the time the manufacturer is the person
16 that's responsible for the production of the device.
17 But I know that there's a lot of overseas OEM
18 relationships and we may have to spend some time
19 discussing that.

20 We have a couple of people with their hands up,
21 I'm going to take them first.

22 This is Jon Constantino. Jon, your line is
23 unmuted, you are live.

24 MR. CONSTANTINO: Great, thank you Peter. This
25 is Jon Constantino representing TechNet. And first of

1 all, appreciate the detailed walking through the forms.

2 And my question and issue relates to the
3 manufacturer delegation of authority form.

4 MR. STRAIT: Sure.

5 MR. CONSTANTINO: And the idea that it has to be
6 submitted each and every time with every certification,
7 and how that is inconsistent with -- at the Federal
8 level where it's a one-time authorization.

9 And I know we've had this discussion and so I
10 wanted to ask that question as to where exactly in the
11 regulations that it really does point out that it has to
12 be every single time because there is some concerns that
13 that adds not only to the cost, but it adds to the
14 paperwork that a branded manufacturer needs to comply
15 with when they've delegated this authority and have
16 initiated, with their contract manufacturers, the
17 ability to take care of this compliance.

18 So, that's the basic question and happy to
19 discuss it.

20 MR. STRAIT: Right. The section in general,
21 this Section 1606(h), basically, the manufacturer
22 delegation of authority form is the manufacturer's part
23 of the declaration, and the declaration accompanies that
24 submittal of data.

25 It shows that, again, chain of custody of these

1 statements.

2 There's not a lot more that I can really get
3 into on that discussion but, yes, unfortunately, our
4 regulations are a little bit different than the Federal
5 regulations. Our regulations would need to be amended
6 to allow for a one-time authorization. We're internally
7 discussing what we can do from a policy stand point but
8 currently, unfortunately, yes, we do require that the
9 manufacturer authorize each statement that's being made
10 on their behalf.

11 MR. CONSTANTINO: Okay. I would love to -- I
12 mean I know the discussion is started and I think it
13 deserves continued, you know, after this workshop a
14 discussion of this issue because it can be a significant
15 point for our members with multiple products coming into
16 the market every single year.

17 MR. STRAIT: Sure.

18 MR. CONSTANTINO: So, yeah.

19 MR. STRAIT: And also, if you need any help with
20 filling out any of those forms, the delegation of
21 authority is a fairly simple one-page form. But still,
22 yes, we are committed to having that discussion with
23 manufacturers and figuring out how to establish a policy
24 that's more in line with what other parties are doing.

25 There was another hand that was raised but it

1 looks like that person took their hand down.

2 So, I'll start with some of the questions that
3 were submitted by typed chat.

4 One person is asking "May we distribute products
5 into the market as soon as we have submitted a product
6 certification package or must we wait for the CEC to
7 post our product on the CEC website?"

8 In general, you will need to wait until we have
9 processed your data submittal and posted it to our
10 website. And this is because we can't necessarily
11 assume that because a submittal has been given to us
12 that the information in that submittal will show that
13 the products comply with the regulations.

14 We try to have a very quick turnaround on these.
15 We are required by law to return them to process
16 submittals in no more than 30 days. And I believe at
17 the moment we have a turnaround time of roughly ten
18 days.

19 He also specifies -- well, anyway, the next
20 question is "Can non-labeled packaging and/or manual
21 inventory be used to depletion on a compliant registered
22 product?"

23 The answer is the regulations apply based on the
24 data of manufacture and this is intended to prevent
25 situations of having basically stranded inventory.

1 Anything manufactured before a regulation becomes
2 effective can still be sold through the marketplace.
3 And that means if you have inventory that's standing
4 inventory, or things that were manufactured ahead of
5 time, that did not bear the required labels, those can
6 be sold.

7 Anything manufactured after that date does need
8 to meet the requirements of regulation.

9 Another person asks, "Are automotive battery
10 charges, used in auto parts shops and repair shops, in
11 the scope of the regulations?"

12 We'll put that question a little bit later so
13 that we can take care of all of the questions related to
14 laboratory approval and certification, first.

15 Someone asks, "Does it cost anything to have
16 your laboratory approved?"

17 The answer is no, there are no costs or fees for
18 any of the approvals, for example laboratory or third-
19 party approval, or for submitting data.

20 Someone asks, "For products already covered by a
21 CEC appliance, such as audio products, do they also need
22 to submit certification forms for a battery charger
23 system? For example, a DVD player may have a battery
24 charger system built into the end use product."

25 In general, yes. Given the specific cases are

1 probably going to be fairly technical, contact us and
2 discuss the nature of your product and we can come to a
3 determination.

4 In a lot of cases, battery-operated devices are
5 actually excluded from the normal regulations. For
6 example -- well, there are a couple of examples I can
7 think of but they're fairly technical. So, that's a
8 discussion we can have with the manufacturer of one of
9 those types of products.

10 MR. LEAON: Peter, if I can just interject here
11 quickly. For those of you that are chatting questions,
12 we would appreciate it if you can include your name with
13 the question that you submit. Thank you.

14 MR. STRAIT: Oh, I can read the names off of the
15 people that are submitting these, if you'd like.

16 MR. LEAON: Yes, that would be good for the
17 record.

18 MR. STRAIT: Okay. Oh, this chat is -- this
19 will be saved as part of the record, also, so the names
20 will be available.

21 From Schumacher, "If a manufacturer provides a
22 product to a distributor or supplier outside of
23 California and does not know and/or does not believe
24 that the product will go to California, but the product
25 finds its way to California, is the manufacturer

1 responsible?"

2 This is kind of a case-by-case question but, in
3 general, the answer is going to be yes. Again, that's
4 very much case by case because it's going to come down
5 to, you know, chain of responsibility and custody.

6 There's a question about the number of ports.

7 Oh, one moment. Sorry about that.

8 Roy Wood is asking, "You discussed the meaning
9 of the number of ports in the performance standard."

10 We'll hold that question for later so that we
11 can get through the questions related to certifying.

12 We have a question, "Can the BC logo be on the
13 inside cover or rear cover of the user manual?"

14 I believe that because we simply say "cover"
15 that any place on the cover is acceptable, including the
16 inside cover or rear cover.

17 Oh, someone's pointed out a typo, thank you for
18 that.

19 Schumacher has followed up by asking, "If
20 product is used to completion prior to manufacture date,
21 is there a deadline for those products to be off of
22 retailer shelves?"

23 No, there is no deadline. But that is why part
24 of our marking requirements are that the date of
25 manufacture be present on units so that we can determine

1 if that's the case. But no, there is no deadline.

2 And it looks like the other questions, there's
3 one other question about marking. "Is there any minimum
4 size requirements for the BC marking? Is there a
5 certain font or graphic logo required?"

6 We are not establishing a specific font or a
7 specific size, but we do require that it be legible.
8 So, that's going to suggest a certain minimum size.

9 We have a speaker, internally, that would like
10 to ask a question.

11 MR. DRAKE: Yeah, my name's Bill Drake, with
12 Actuant Electrical.

13 I need a clarification on if a manufacturer
14 sells a charger outside the State of California and it
15 finds its way in, and it's sold by somebody within this
16 State, you made the statement that the manufacturer is
17 responsible. I thought it was the party selling the
18 product was responsible.

19 MR. STRAIT: It can be and it depends. If this
20 is something where a major retailer is stocking these
21 products, then it comes down to whether it would be
22 reasonable for the manufacturer to know that the product
23 is being offered for sale.

24 Generally, what we do in a case like this,
25 though, is we simply let the manufacturer know that

1 we've seen these products and give them the opportunity
2 to certify. This isn't the kind of thing where we would
3 immediately, necessarily, go with a stronger enforcement
4 action.

5 But in the case of a small number that happen to
6 be sold because somebody is -- for example, a repair
7 person has a service based out of Tahoe and does some
8 repair services on the California side of the border,
9 no, that's not the kind of thing that we look at.

10 MR. DRAKE: Okay, thank you.

11 MR. STRAIT: Okay, someone has asked, "Are we
12 correct in understanding that we, as a manufacturer, can
13 have our own lab certified? The third-party
14 verification of compliance is not required?"

15 Yes, this is correct. I know that the Federal
16 government is considering, as they look at the issue of
17 battery chargers, whether or not to require independent
18 test laboratories or independent verification. Right
19 now, our program does not impose that sort of a burden.

20 I would like to return, very briefly before I
21 hand the mic over, to the question of who the
22 manufacturer is and some of the questions related to
23 when the manufacturer is a third party and how to
24 resolve some of these OEM situations.

25 Generally, our regulations assume that the

1 manufacturer is the person that is actually engaged in
2 the original production and assembly of a device.

3 But for companies that might rely on OEM
4 factories or might design the appliance but bid out the
5 actual factory construction this will then, instead, go
6 to the party that is legally taking on all the
7 responsibilities related to the unit's manufacturing.

8 This allows some companies to say -- I'll see if
9 I can use -- I don't really want to use a specific
10 company as an example, just in case they don't really
11 want to be used. But there's a lot of companies that
12 say even though I'm using three or four different source
13 factories these are my brand products, I'm the
14 manufacturer and I'm taking on those responsibilities.

15 In those cases that person will also be the
16 party held responsible for compliance with the
17 compliance efficiency regulations.

18 For entities that would rather pass back those
19 liabilities to their original source providers, or the
20 original OEMs, we're not going to consider you a
21 manufacturer, either.

22 In those cases you would possibly have to tell
23 us who was manufacturing your device and these
24 requirements, if you're passing the authority back to
25 them, because these liabilities would apply to them,

1 that's when you would be a third party acting on their
2 behalf. And that's when we would need to show that
3 you're authorized to make a statement that they would
4 ultimately be held accountable for.

5 But I know that battery chargers, unlike a lot
6 of appliances, there's a lot of OEM work. So, in
7 general, if you have additional questions about this
8 topic just e-mail us, we're happy to respond.

9 And if you want to describe the situation that
10 you're in or the relationship between your companies, we
11 can usually determine how that would be handled.

12 At this time, for the remaining technical
13 questions would you like to -- yeah.

14 MR. RIDER: And there were some earlier ones
15 right, so --

16 MR. STRAIT: Yeah, there's the one that I've
17 received recently.

18 MR. RIDER: Well, let's see, there was a USB
19 one. Hi, this is Ken, I'm back up at the podium.
20 We'll -- oh, hold on a second.

21 Oh, actually, before I get into some of the
22 technical stuff we're going to have Pippin Brehler, our
23 legal counsel, get into a little bit more detail about
24 who's responsible for what for these regulations.

25 MR. BREHLER: Good morning, I'm Pippin Brehler,

1 I'm a senior staff counsel with the Energy Commission
2 here.

3 A couple clarifying questions or clarifications
4 to some of the earlier responses and the first one,
5 really quickly, is going to go back to the question
6 about the requirement for the authorization for third
7 parties, and that's in Section 1606(f). I think we
8 mentioned (h) earlier.

9 But the other question about the liability and
10 responsibility for products that are sold or offered for
11 sale, the standards, and the regulations, and the
12 requirements for certification apply to products that
13 are sold or offered for sale.

14 So, once that occurs, that appliance is subject
15 to the requirements. And the question of who is
16 responsible in making sure that happened is going to
17 depend on the facts of the case. And whether there's
18 any sort of liability or consequences for selling that
19 appliance that's not properly certified to us is going
20 to depend on who is doing the selling at that point.

21 And as Peter mentioned, what we would do if a
22 third subsequent purchaser of a product is later selling
23 the appliance in California, it would make sense for us
24 to go talk to the person doing that selling and have
25 them move up the chain of -- you know, up the stream of

1 commerce to the manufacturer to get the manufacturer to
2 certify it, or have that subsequent seller or retailer
3 stop selling it in California.

4 MR. RIDER: All right.

5 MR. LEAON: Let me follow up in the room, I know
6 we had a question on that. Does that clarify that issue
7 for you or would you like to ask any follow-up questions
8 on that?

9 MR. CONSTANTINO: No, that clarified it, thank
10 you.

11 MR. LEAON: All right.

12 MR. RIDER: All right, so we're going to switch
13 gears a bit into some of the technical questions,
14 detailed questions about the regulations, the test
15 procedure, am I battery charger, not a battery charger,
16 those types of questions.

17 Before we open it up to the room, let me see if
18 there were -- I think there were a few questions from
19 earlier. I've got one here from GM McMurray. He asks,
20 "If our charger also has USB ports, are they also to be
21 loaded?"

22 So, no, if you've got extra ports that are meant
23 to just generically have USB ports and they're not
24 necessarily for battery charging, you would not have
25 anything connected to those ports.

1 And, actually, the test procedure in specific
2 says you shouldn't have any external connections
3 connected during the test procedure that aren't relevant
4 to battery chargers. So that also includes not only
5 USB, you know, accessories, but also includes things
6 like telephone connections, network connections, any
7 kind of connections that are not required for the
8 battery charger should be left disconnected during the
9 testing.

10 I would show you the section but we're close to
11 lunch, so I'm going to see if I can move through these a
12 bit faster than that.

13 From John McMillion, "Are automotive battery
14 chargers used in auto parts shops and repair shops in
15 the scope of these regulations and, if so, when do they
16 need to comply?"

17 Okay, so the answer is these types of products
18 do meet the definition of battery charger. In fact,
19 these typically are a-la-carte chargers. There may be
20 some question of whether these are consumer or non-
21 consumer products, depending on how they're distributed.

22 This would also be a case where you could have a
23 repair part, let's say you had a very expensive
24 automotive battery charger for your car shop and it
25 breaks, that would be -- and you need to get it fixed,

1 that would be something that would fall into that five-
2 years additional of repair parts. This would be a good
3 example of that.

4 So, I guess the answer is yes, it's in the
5 scope. When it has to comply depends on whether it's a
6 consumer product or not or if it's a repair part. And
7 repair part refers to the repair of the battery charger,
8 not the repair of an external thing.

9 So, when I say repair part I don't mean the
10 battery charger is used to repair a car or a car's
11 battery, I mean a repair part to fix the battery charger
12 that would maybe charge a car's battery.

13 All right, let's see if there are any other ones
14 here. Number of ports, from Roy Wood, asks, "You
15 discussed the meaning of number of ports in the
16 performance standard. I could not find this in
17 writing."

18 Oh, it's in Section 1604, it discusses the
19 number of ports and it should be -- I'll actually pull
20 that one up because it is a pretty common question.

21 Let's see here, so what I'm doing right now is
22 I'm opening the standards back up. So, it is in Section
23 1604(w), excuse me for twirling through this really
24 fast.

25 Okay, let me make this bigger. And we're not --

1 can't even see this.

2 Okay, subsection (w), this is a small battery.

3 In the small battery charger system test procedure it
4 talks about the number of ports in subsection (c). So,
5 this would be 1604(w)(1)(c) and that discusses the
6 number of ports. It looks like it continues on page 7,
7 so it's on page 6 and 7 of the regulations.

8 Let's see, where was the -- oh, there we are.

9 Okay, logo, there's some back and forth chat.

10 Okay. Well, maybe we should go for people in
11 the room then. So, if you have a -- and then we'll
12 switch back to chat and phone. But I just wanted to
13 make sure we didn't miss something in our previous chat.

14 So, if you have a question in the room, please
15 approach the podium, state your name, and we'll try to
16 answer your question.

17 MR. JENSEN: Thank you, yes. Kelly Jensen,
18 representing the Consumer Electronics Association and we
19 have two questions.

20 The first is if a device includes multiple
21 charging interfaces, so an AC adapter and an inductive
22 charger, must each interface be separately certified?

23 In the CEC's response, on October 9th to our
24 letter, it seemed to indicate that only one interface
25 must be tested.

1 MR. RIDER: Yeah, okay, so let's say you had
2 multiple -- you've got a battery charger product, and
3 I'm just repeating this back to you to make sure I get
4 it right. You've got a battery charger, it's sold in
5 the store and it's got several ways to charge it,
6 perhaps. It's in the same box and it has multiple ways
7 to charge it.

8 Generally, there are some guidances in the test
9 procedure but what we go by is the instructions. So, if
10 the instructions say this is how you're supposed to
11 charge it, generally that's how we're going to go just
12 for safety reasons.

13 So, we're going to look in -- if there are
14 multiple ways, we're going to look in the instructions
15 and see what they tell us to do. And if it describes,
16 let's say it was an inductor charger, but if the
17 instructions say plug it into a USB port and charge it,
18 and then optionally you can also use this inductor
19 charging thing, then we're going to use that USB port as
20 the primary. We're going to use that, that's what
21 you're going to have to comply with.

22 And so the instructions are going to be the
23 thing that tell us what you, the manufacturer, intend to
24 be the primary way to charge this battery charger, and
25 we're going to use that to determine -- that's what we

1 want you to comply with is the primary way to charge the
2 battery.

3 As we all know, in consumer electronics there's
4 many ways, especially when you get into a USB charger or
5 something, this is something that came up many times
6 during the rulemaking, you could charge that using a
7 television, you could charge it using a computer, you
8 could charge it all sorts of different ways.

9 You know, we want to use the way that comes with
10 the instructions. And if the instructions just say, you
11 know, use the USB charger that came with it, then that's
12 what we're going to test it -- that's how we're going to
13 test it.

14 MR. JENSEN: Thank you. The second question is,
15 is an external power supply a necessary element of a
16 battery charger system? What is the proper
17 characterization of a device that includes battery
18 charging circuitry but is not packaged with a power
19 supply?

20 MR. RIDER: Sure, okay. So, the answer -- so
21 that's kind of two questions, the first question is an
22 external power supply necessary to be classified as a
23 battery charger system? And the answer to that is no.

24 The test procedure, where I pointed it out
25 earlier, has four scenarios for input power. The first

1 is if you just have an AC cord the input is going to be
2 AC power. If you have an external power supply that
3 comes with the device, the battery charger, then use
4 that external power supply that comes with it. And
5 there's a few methods, if the manufacturer provides that
6 as an accessory, for selecting it.

7 A good example of something that doesn't have an
8 external power supply, but is a battery charger system,
9 is an MP3 player. Some of the smaller MP3 players don't
10 come with anything except for a USB port for you to
11 charge in a multitude of different ways, again like the
12 computer, or the TV, or a DVD player, wherever there's
13 an available USB port.

14 The test procedure will directly provide -- so
15 an external power supply converts AC power to DC power
16 in most cases.

17 The test procedure provides if there's no
18 external power supply, we'll just directly provide DC
19 power to a product like an MP3 player. So, it's not
20 necessary to have an external power supply and be a
21 battery charger system.

22 So, that brings up your second question which
23 is, okay, well what is -- what is required to be a
24 battery charger system?

25 And that gets into the battery -- the definition

1 of a battery charger is pretty broad. It says, "A
2 battery charger coupled with its batteries."

3 Basically, it's -- there's many signs. One, a
4 product will have a battery. It's basically if the
5 product has some sort of control on the battery charging
6 or has a battery charger.

7 And so a good indication is it has a charge
8 indicator light, any kind of charge indication shows
9 that it has charge control, it's conveying charge
10 control information to you, if it has charge
11 termination.

12 It's going to be things that are necessary to
13 safely charge a battery. So, if the product has those
14 things, then it's going to be a battery charger.

15 If it has nothing of that kind and, mainly, I
16 guess it's easier to think of what would not be a
17 battery charger and that would be, in most cases,
18 external power supplies by themselves are not battery
19 chargers. But they have conversion circuitry, but they
20 don't have battery charger control circuitry, meaning
21 that they don't -- they just put out power and they
22 don't are what they're connected to.

23 The battery charger has circuits that are
24 specialized to make sure that the battery gets charged
25 correctly, and safely, and all those types of things.

1 So, that's a different -- and it cares, it's meant to be
2 connected only to a battery, it's not just meant to
3 power something generically.

4 So, I guess that's what it gets down to. If
5 there's any question about whether a particular
6 product -- we get a lot of these questions and we're
7 always happy to answer them.

8 I appreciate pictures a lot. A lot of times we
9 can figure out -- a picture is worth a thousand words.
10 So, if a manufacturer is interested, hey, I've got this,
11 I'm not quite sure whether this has charging circuitry
12 or not, send us an e-mail, call us but, again, a picture
13 goes a long ways. We can response much faster, usually,
14 because the things I want to see is does it have a
15 charge indicator light, where does the battery sit, how
16 does it get charged, those kind of things.

17 So, if you can provide that, I can help you out
18 much quicker.

19 So, are there any other questions in the room?

20 Okay, so how did you get to -- participants,
21 right? So, I'm going to look for a hand, any hands that
22 are up and I'll unmute you.

23 I don't see any hands. There's a really
24 complex -- there's a really long chat here. This may
25 better be served through an e-mail, just because it's

1 going to take me forever to read it because it's
2 technical.

3 Okay, so it looks like this was a kind of a
4 certification question. If you want to follow up, Jin
5 Jiang (phonetic) -- I probably slaughtered your name.
6 But if you could send that to Appliances, we would be
7 happy to answer it there.

8 Okay, well --

9 MR. FLAMM: Is that question going to be part of
10 the recorded proceeding?

11 MR. LEAON: This transcript is going to be saved
12 and I believe we're going to be posting that --

13 MR. RIDER: The chats?

14 MR. STRAIT: Yeah, this gets saved when we close
15 this out?

16 MR. RIDER: Yeah, I'm not sure, this looks like
17 it was sent to us and I don't know what "priorly" means.
18 I don't know --

19 MR. STRAIT: Priorly just means it was sent to
20 us --

21 MR. RIDER: I don't know, we'll work it out.

22 Is there something in here that you have a
23 similar question?

24 Well, let's see, is there something -- there's a
25 question if we submitted our rules to OAL and the answer

1 to that is yes.

2 Yeah, we might as well try, I guess, to answer
3 these. Okay, so this is Jin Jiang, I don't know, I'm
4 sorry, I'm really bad at Chinese pronunciations.

5 So, the first question was, "Have we submitted
6 the package to OAL?" The answer is yes.

7 When OAL responded to our submission nobody
8 knows. And will the effective date of the rules be
9 delayed, there's no reason to believe so.

10 Number two, the question is, "Whether
11 distributors can sell the products that do not comply,
12 that are not in compliance with the regulation after
13 February 1, 2013?"

14 You may sell products that do not comply with
15 the standards if they were manufactured before the
16 effective date for that product.

17 So, if you made something December 15th, of this
18 year, and February rolls around and you're just getting
19 around to sell it, you may sell it and you may continue
20 to sell that. If it's very slow moving on the shelf, it
21 can still be sold ten years from now without any
22 problem.

23 So, it's by manufacture date, so anything made
24 before February 1st may continue to be distributed and
25 sold in the State of California without meeting these

1 efficiency regulations.

2 Another question, "The Energy Commission has up
3 to 30 days to respond to data submittals; how long is
4 the average?"

5 I think Peter said ten days is where we're at
6 right now.

7 MR. STRAIT: Ten business days right now.

8 MR. RIDER: Okay, so ten business days.

9 "If there's an urgency, is there any way to
10 shorten the duration?"

11 I think we go first come, first served in
12 general, unless there's some serious hardship.

13 MR. STRAIT: Right. We process our submittals
14 in the order they're received, just in a question of
15 fairness. If there is a specific hardship that would
16 take place if the -- if the submittal took the 30-day
17 period, and you can describe that hardship, then we can
18 consider it and we can consider it as a request to
19 process you out of order.

20 This does not mean we will necessarily do so
21 but, yes, if there's something specific that will happen
22 then just let us know, and we'll try to be responsive.

23 MR. RIDER: Yeah, and there's a little follow up
24 there. "If they've failed, when they resubmit it is it
25 faster or not?"

1 And, usually, it is a bit faster because you're
2 logged into the system and whoever's processing your
3 data is familiar with what you're trying to do. So, it
4 should be a little bit faster than just the first time
5 you submit, but I can't guarantee that it's always the
6 case.

7 Number four, they've also asked, "Certification
8 can be delegated" -- I mean this is better answered by
9 Peter, but I'll read the question.

10 "Certification can be delegated to a third party
11 or it can be done by the manufacturer, itself. Are
12 there any differences between these two ways, such as
13 are there differences in the responding time in
14 requirements? Is the certification made by the third
15 party" -- or "does the CEC prefer third party
16 certification?"

17 MR. STRAIT: I can respond to that. There's no
18 technical difference between certification being made
19 directly by the manufacturer and one by a third party;
20 that is legally that it results in the same listing in
21 our database.

22 A third-party certifier, because there's that
23 additional need for the Manufacturer Delegation of
24 Authority Form, and an additional need for the third
25 party to be on file with us can introduce, you know,

1 other places where we might see something wrong and
2 needed to correct something. But it otherwise doesn't
3 affect the processing time or anything like that.

4 We actually prefer a certification directly from
5 the manufacturer. In our mind, ideally, the
6 manufacturer would go out and cause the product to be
7 tested, would get that information back from the
8 laboratory, take possession of it, and then simply
9 communicate that to us but the preference is very

10 We also work very closely with several major
11 test laboratories that offer, as a service to their
12 clients, not only will we test your device, we'll also
13 take care of certifying it to the California Energy
14 Commission. So, we're comfortable working either way

15 Okay, well that's everything that's written up
16 here. I might, just out of curiosity, and a tendency --
17 I don't know, I'm going to -- in case there are some
18 technical issues, I'm thinking of unmuting these lines.

19 MR. LEAON: Yeah, why don't we try that, Ken.

20 MR. RIDER: Yeah, and so I know everyone's
21 hungry and this is going to be a lot of squelch, but
22 let's see what happens here.

23 All right, so if you are on here and couldn't
24 figure out how to chat or ask a question, now is the
25 time.

1 MR. MACIEL: Ken, can you hear me?

2 MR. RIDER: Yeah, who is this?

3 MR. MACIEL: This is David from Sony.

4 MR. RIDER: Hi David. This is David Maciel,
5 right?

6 MR. MACIEL: Right. I just have a follow-up
7 question and this is in regards to what is considered a
8 charging system and what is not.

9 There are some cases in which the regulation
10 defines, clearly, what a charger system is and the test
11 procedure indicates something slightly different. And
12 so which one of the documents is the binding document;
13 is it the regulations or it is it the past procedure?

14 MR. RIDER: Yeah.

15 MR. MACIEL: And if you want me to be more
16 specific about that --

17 MR. RIDER: No, no, no. Well, before we get
18 into that, the regulations are going to trump. For the
19 scope, as I mentioned, when you figure out whether
20 you're covered or not, no matter what the test procedure
21 defines the battery charger as, the scope and
22 definitions sections of our adopted regulations trump
23 all of that.

24 So, if you don't meet the scope in the -- or the
25 definition within the standards, it doesn't matter if

1 you meet the definition in the test procedure. So,
2 that's what trumps, is the trumping factor.

3 MR. MACIEL: I'm sorry, there was a lot of
4 interference, I couldn't hear --

5 MR. RIDER: Oh, yeah, I know. I'm sorry about
6 that. I'll try to say it again and let me know if you
7 can hear it.

8 It's the regulations. That's what you use. So,
9 the regulations, specifically Sections 1601 and 1602,
10 the scope and the definitions in Title 20 are going to
11 be what you use to determine whether your product is
12 covered or not and not the definitions in the test
13 procedure.

14 MR. MACIEL: Okay. A follow up statement would
15 be, for example, in the regulations there is a clear
16 definition of a USB charging system. And in that
17 definition is -- in the definition it's clearly
18 indicated that an EPS, if it's packaged with the charger
19 system --

20 MR. RIDER: Hold on a second, I'm going to try
21 to silence this back chatter. I'm sorry, David, I can't
22 quite get it -- oh, there we go. He silenced himself,
23 that's good.

24 All right go again, sorry.

25 MR. MACIEL: Okay, in the actual definition of

1 the USB charger system it clearly indicates that the EPS
2 is packaged with the USB charger system. However, in
3 the recent account where you explained about an MP3
4 player, you indicated that even though the product is
5 not shipped with an EPS it should be tested as described
6 in the test procedure.

7 MR. RIDER: Yes.

8 MR. MACIEL: So, which one of the two should I
9 use --

10 MR. RIDER: Well, it's like this. You figure
11 out if you're in the scope of the regulation using 1601
12 and 1602. And then when you're figuring out the
13 performance of your product you use the test procedure.

14 So, the test procedure will tell you how to
15 handle the external power supply, for example. But
16 you've already determined that your product is covered
17 and now you're using this test procedure to get us the
18 data you need to prove that they are efficient.

19 So, when you're within the test procedure, when
20 you're coming -- when it comes down to testing, you're
21 going to want to use the definitions in the test
22 procedure.

23 And I went -- in the presentation I even
24 discussed this. There's different -- there's some
25 differences between the regulation and the test

1 procedures. When you're working within the framework of
2 the test procedure, you need to follow the definitions
3 of the test procedure.

4 But for all other things, including whether
5 you're in the scope, or what data you need to give us,
6 or the marking, any of these other parts of the section,
7 the regulations you're going to need to follow the
8 definitions we've got in the standards.

9 The only time you use the test procedure
10 definitions are when you're using the test, when you're
11 testing the product.

12 MR. MACIEL: Okay, thanks.

13 MR. RIDER: Does that make sense?

14 MR. MACIEL: It does.

15 MR. RIDER: Okay. Are there any other
16 questions?

17 (WebEx chatter)

18 MR. RIDER: Is that a question?

19 MR. LEAON: Do we have any other questions on
20 the phone?

21 Any questions in the room?

22 Okay, hearing no questions, I'd like to thank
23 everyone that participated today and again -- do you
24 think maybe you can mute those lines?

25 MR. RIDER: I read your mind.

1 MR. LEAON: Okay. All right great. So, once
2 again I want to thank everybody for your participation
3 today and I want to thank staff for their excellent
4 presentation.

5 And once again, please feel free to contact
6 staff directly if you have detailed questions that you
7 would like to ask, either technical questions or
8 certification questions.

9 And Peter Strait is the certification lead and
10 Ken Rider -- Ken addressed technical questions related
11 to the standards.

12 So, with that I will adjourn the workshop. And
13 once again thank you, everyone, for your participation.

14 (Thereupon, the Workshop was adjourned at
15 12:01 p.m.)

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