



# APPLIANCE EFFICIENCY REGULATIONS

## Staff Workshop

### Battery Charger and Self-Controlled Lighting Control Stakeholder Assistance

October 23, 2012

Appliances and Process Energy Office  
Efficiency and Renewables Division  
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# Welcome and Introduction

**Mike Leanon**  
**Office Manager**



**Ken Rider**

**Electrical Engineer**



# Battery Charger System Regulations

- Require:
  - Testing
  - Compliance with minimum efficiency standards
  - Certification
  - Labeling and/or marking



## Where can I find the regulations?

- New website
- Link to the best currently available copy:  
<http://www.energy.ca.gov/2012publications/CEC-400-2012-011/CEC-400-2012-011-CMF.pdf>



# Scope

- Am I regulated?
  - Section 1601 contains exceptions
  - Section 1602 contains definitions
  - The two combined form the scope of the regulation



# Testing

- Section 1604(w) contains the testing requirements
- Copies of large and small battery charger test procedures are available on the website
- [http://www.energy.ca.gov/appliances/battery\\_chargers/documents/reference/](http://www.energy.ca.gov/appliances/battery_chargers/documents/reference/)



# Testing

- Differences in definitions
- Selecting a power source
- Selecting test results for the regulations



# Minimum Performance Standards

- Large battery chargers: 1605.3(w)(1)
- Most small battery chargers: 1605.3(w)(2) except:
  - Optionally 1605.3(w)(3) for inductive charger systems
  - 1605.3(w)(4) for uninterruptable power supplies and backup battery chargers



# Certification

- Section 1606
- Specific data required for certification is located in table X
- More detailed discussion of certification later in the presentation



# Labeling

- Section 1607(d)(12), requires a “BC” inside a circle
- Provides two options for battery charger systems:
  - A mark on the nameplate of the product with the battery charging terminals or;
  - A label on product packaging and the cover page of the instructions.



## Additional Resources

- Technical FAQ
  - <http://www.energy.ca.gov/2012publications/CEC-400-2012-FS/CEC-400-2012-FS-002.pdf>
- Staff are available through e-mail and telephone



## Staff Contacts

- Technical Questions:
  - Harinder Singh, [Harinder.Singh@energy.ca.gov](mailto:Harinder.Singh@energy.ca.gov), (916) 654-4091
  - Ken Rider, [Ken.Rider@energy.ca.gov](mailto:Ken.Rider@energy.ca.gov), (916) 654-5006
- Certification, General Questions:
  - Send to the Appliance Program e-mail account [Appliances@energy.ca.gov](mailto:Appliances@energy.ca.gov)



**Gary Flamm**

**Supervisor Title 24 Lighting**



# Self Contained Lighting Control

Is a unitary lighting control module that requires no additional components to be a fully functional lighting control.

## Certification Requirements:

- ✓ By manufacturer according to T24 Building Standards for building permits obtained before February 1, 2013
- ✓ By manufacturer according to T20 Appliance Regulations for products manufactured on or after February 1, 2013



# Lighting Control System

Requires two or more components to be installed in the building to provide all of the functionality required to make up a fully functional and compliant lighting control.

## Certification Requirements:

- ✓ Certified by manufacturer according to 2008 T24 Building Standards for building permits obtained before January 1, 2014
- ✓ No certification required when building permits obtained on or after January 1, 2014
  - However, require licensee of record to sign installation certificate
- ✓ Not regulated by Title 20



# Certification Presentation

Peter Strait, Compliance  
Program Lead



# What is Certification?

## cer·ti·fy verb

1. to attest as certain; give reliable information of; confirm: *He certified the truth of his claim.*
2. to testify to or vouch for in writing: *The medical examiner will certify his findings to the court.*
3. to guarantee; endorse reliably: *to certify a document with an official seal.*

*From Dictionary.com*



## What is Certification to the Energy Commission?

- Manufacturers of regulated appliances must certify their models' performance data to the Energy Commission before the models can be sold or offered for sale within the State.
- This means we need data and a signature.



## How to certify – the Data Submittal process

- Data submittals usually have two parts:
  - Declaration (the signature part)
  - Data file (the data part)
- A third party submittal has a third part:
  - Manufacturer Delegation of Authority
- Let's look directly at the forms
  - [The certification packet for Small Battery Chargers](#)



# Question Break 1: Certification

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# Test Laboratory Approval

- Test laboratories must be approved by the Energy Commission
  - [The Test Laboratory Approval Application](#)
- Approval is good for a single calendar year
  - You can send the application with the submittal
  - 2013 applications will be available in two weeks
- Manufacturers may use internal laboratories



## Third Party Certifier Approval

- Third Party Certifiers must also be approved by the Energy Commission
  - [The Third Party Certifier Application](#)
- Approval is good for a single calendar year
  - You can send the application with the submittal
  - 2013 applications will be available in two weeks
- Each submittal must be authorized by the manufacturer



## Delegation of Authority

- Manufacturers may delegate the authority to certify their data to an approved third party
  - [Manufacturer Delegation of Authority form](#)
- This form is filled out by the manufacturer.
  - The third party must include a copy of the form in their submittal
- Like the Declaration, this form must be completed for each submittal



## Question Break 2: Approvals

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## Common Errors

- Declaration
  - Test laboratory info is incomplete or absent
  - Unclear if the submitter is acting as a third party
  - Document does not have a wet signature
- Data file
  - Incomplete information / missing data fields
  - Multiple models are submitted in a single listing
  - Incorrect information type entered into a column



## A quick tour of our website

Our main program page:

- o <http://www.energy.ca.gov/appliances/>

Forms, instructions, and certification packets:

- o <http://www.energy.ca.gov/appliances/forms/>

The Appliance Efficiency Database:

- o <http://www.appliances.energy.ca.gov/>



## **How to contact us**

**E-mail:**

[appliances@energy.ca.gov](mailto:appliances@energy.ca.gov)

**By phone (Energy Standards Hotline):**

**916-654-5106**

**(In California: 800-772-3300)**



# Questions?

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