



## SEL's Newest Addition—Klaus Ehrlich

Klaus Ehrlich joined SEL in December, 2006. Klaus has extensive experience in regulatory compliance, having most recently been Manager, Compliance Engineering at Lucent Technologies for the past 6 years. Prior to that, Klaus worked for 17 years in various positions in product compliance and engineering, including 13 years at TUV Rheinland as a Senior Engineer. He was one of the first three engineers who helped establish TUV's initial foot-

hold in North America in the mid-1980s. We've had a history of working with Klaus from his TUV years and are convinced SEL clients will find Klaus to be as engaging, reliable and professional as we have.

**His Role at SEL:** He will be handling product safety like the rest of us. In addition, for the clients who are interested in NEBs compliance, Klaus can manage the process, by offering tips for designing in



compliance, and testing at our partners' facilities.

**His Life Outside SEL:** Klaus enjoys swimming, hiking and music. He can be reached at klaus@seldirect.com and ext. 223.

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## Energy Efficiency Requirements in California, Then Beyond

With rising energy costs recently, there has been a renewed interest by regulators and savings-conscious users alike, in finding ways to reduce wasted energy.

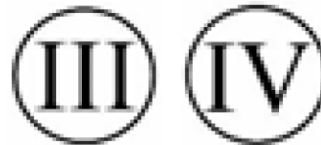
In December 2006, the California Energy Commission (CEC) published CEC-400-2006-002-Rev 2, which revised previously published versions on the same topic. It establishes energy efficiency requirements from traditionally regulated products such as water heaters and air conditioners, to external power supplies and audio-video products. Interestingly, this most recent iteration is the first to have an external power supply grace its cover, noticeably absent from previous versions next to the oven, water heater and refrigerator. We are going to mostly focus on external supplies since they are commonly used by the majority of our clients. First, due to

the document's structure that lumps external power supplies in the same category as consumer audio-video products, there is confusion that the supply requirements only apply to consumer or home use products, or only supplies used to power audio-video products. The requirement is more far reaching than that, and is currently in effect for certain types of products. We suspect they were clumped like this since they both address power draw with no load (supplies) and in standby (A/V).

Effective dates for California:

1/1/2007— Supplies for cameras, PDAs, printers and other specified products must comply with efficiency requirements when loaded to their nameplate rating, and maximum power draw when not loaded.

7/1/2007— Supplies for wired phones and all other products must comply with the same limits as above.



7/1/2008— All supplies must meet more stringent limits than above.

How do manufacturers of products start to confirm compliance when sourcing a supply? Compliance with the 2007 limits but not those of 2008 is identified by a III mark as detailed above, while those complying with 2008's should bear the IV as shown above.

SEL can help you with further understanding these requirements, testing to confirm compliance for manufacturers placing products on the market in California, and documenting compliance. When sourcing an external power supply, you can add this to the list, with safety certs, EMC compliance, RoHS, etc.!

### Special points of interest:

- For agency visit dates to SEL and seminar dates, see the Calendar page on our website.
- For information between newsletter issues, see our website or call us directly.
- To see SEL's facility or see directions to our office please visit our website at [www.SELdirect.com](http://www.SELdirect.com).





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### Did you know?

- **IEC60950-1, 2nd Edition**, for ITE was published at the end of 2005. There are some significant changes regarding systems with multiple inputs and leakage current! It includes some important clarifications on how to evaluate CATV connections.
- **IEC60950-22, 1st Edition** was published at the end of 2005, and is for ITE installed outdoors. SELV voltage limits have changed significantly in this one.
- **Low Voltage Directive**. Starting in early 2007, EU Declarations should reference the updated 2006/95/EC, which is really a housekeeping effort to update previous versions, without materially changing the requirements.
- **European Union Expansion**. Romania and Bulgaria were officially added to the EU on 1/1/2007, so the CE Mark gets more bang for its buck!
- **CKC Laboratories** has a new secure File Transfer Service for its EMC Test Reports at <https://xnet.ckc.com/default.aspx>.

### SEL Handouts

For our clients, we offer 2-4 page summaries of those traditional problem areas, including:

- Plastics flammability
- Labeling
- Manuals
- Factory Inspections
- Standards Evolution
- Process Flowchart
- Spacings
- Why Do Product Safety?
- CB Scheme
- CE Mark and the European Union
- Input Requirements for DC Battery Banks
- Production Line Test Procedures

## Energy Efficiency Requirements (cont.)

The framework in California seems to be consistent with upcoming efforts in other countries. The next most imminent appears to be Australia and New Zealand, which are using a similar classification system, with a date of mandatory compliance of October 1, 2007, with the products requiring registration with the authorities.

Although the framework of the EU's Energy Using Product (EUP

is still taking shape, with much development expected in 2007, the products that are intended to be regulated initially are very similar to the list for California. There are other countries that have requirements in the works, as well.

By addressing the California requirements for energy efficiency in the near term, companies can get a leg up on those upcoming worldwide requirements.



### Compliance Tip for UL Customers!

You should have received a letter in the mail recently with info to register to allow the download of any UL Standard! With that registration, you can then sign in to [www.ulstandards.com](http://www.ulstandards.com). It's a great perk for UL customers! Click [here](#) to see an example of the letter to look for.

### Important Dates!

**7/1/2006:** After this date, ITE products placed on the European Market must comply with EN60950-1:2001.

**7/1/2006:** RoHS substances ban came into effect in EU.

**1/1/2007:** Power supplies for laptops, mobile phones, PDAs and other specific products, and compact audio/video products in California must comply with the energy efficiency requirements.

**7/1/2007:** Many products, including external power supplies in California must comply with the energy efficiency requirements — both no load power draw and efficiency. Such products have particular markings, shown on page 1. This is NOT just for A/V products, nor just for home use products — common misperceptions!

