

## Energy - Docket Optical System

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**From:** Mika Yagi [Mika\_Yagi@gensler.com]  
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**To:** Energy - Docket Optical System  
**Subject:** FW: From the CEC: Final Drafts of the 2013 Residential, and Nonresidential Compliance Manuals are available for viewing

**Categories:** Ready to Docket

California Energy Commission

**DOCKETED**

**12-BSTD-5**

**TN # 71152**

**JUN 05 2013**

Hello!

Perhaps I am not emailing the correct address but I had a comment regarding the draft manual.

Has there been any consideration for controls discussed in Section 8.5 (Circuit Controls for 120-Volt Receptacles) to be other than occupancy sensor type as denoted? Based on a pilot study that I've conducted, occupancy sensor types require all desktop computing devices (which currently are the dominant equipment utilized in commercial buildings rather than laptops) to be un-controlled which doesn't produce an outcome that reduces energy use for plug loads. There are other control types such as load sensing that may want to be considered.

Below is a table that I've developed that matches equipment use with recommended plug load controls.

Thanks and I'd be happy to share additional back up information for your review.

Mika

| EQUIPMENT CATEGORIES                         | ITEM # | POWER MGMT | OCCUPANCY SENSOR | LOAD SENSING | REMOTE SWITCH | TIMER/SCHEDULE | NO CONTROL |
|--|--------|------------|------------------|--------------|---------------|----------------|------------|
| <b>APPLIANCES</b>                            |        |            |                  |              |               |                |            |
| Microwave                                    | 1      |            |                  |              |               | •              |            |
| Refrigerator                                 | 2      |            |                  |              |               |                | •          |
| Coffee Maker                                 | 3      |            |                  |              |               | •              |            |
| Ice Maker                                    | 4      |            |                  |              |               |                | •          |
| Filtered Water Dispenser                     | 5      |            | •                |              |               | •              |            |
| Espresso Maker                               | 6      |            | •                |              |               | •              |            |
| <b>IMAGING DISPLAY</b>                       |        |            |                  |              |               |                |            |
| Laser Printer (Shared)                       | 7      | •          |                  |              |               | •              |            |
| Laser Copier (Shared)                        | 8      | •          |                  |              |               | •              |            |
| Inkjet Plotter (Shared)                      | 9      | •          |                  |              |               | •              |            |
| Printer/Plotter/Copier (Personal)            | 10     | •          |                  | •            |               |                |            |
| <b>AUDIO VISUAL</b>                          |        |            |                  |              |               |                |            |
| LCD/Flat Screen Display/Information Displays | 11     | •          | •                | •            | •             | •              |            |
| <b>COMPUTING</b>                             |        |            |                  |              |               |                |            |
| Desktop Computer*                            | 12     | •          | •                | •            | •             | •              |            |
| Laptop Computer                              | 13     | •          | •                | •            | •             | •              |            |
| LCD/LED Monitor                              | 14     | •          | •                | •            | •             | •              |            |
| USB/LCD/LED Monitor                          | 15     | •          | •                | •            | •             | •              |            |
| Computer Peripherals                         | 16     |            | •                | •            | •             | •              |            |

\*Desktop Computers on any plug load controls shall stay on the "uncontrolled" receptacles at all time

**Table 6.5-Recommended Controls for Typical Office Equipment**

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The Final Drafts of the 2013 Residential, and Nonresidential Compliance Manuals are available for viewing.

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Comments received can also be viewed.

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To get a copy of any comment, please contact the docket unit at [docket@energy.ca.gov](mailto:docket@energy.ca.gov)

The Energy Commission will consider approving these Manuals at the June 12, 2013 Business Meeting.

For more information, click [here](#).