Electrical Top Seven

Top Seven for Electrical: They're all important, but since you can't check everything, check these. *Spend only the amount of time you already spend on energy code issues but prioritize these in this order.*

		Plan Review	Inspection
1	Commissioning	Statement on plans that they	Evidence that lighting controls,
	C408	will do commissioning	receptacles, and metering were
			commissioned and report filled out
2	Metering	Metering & display shown in	Have contractor turn on display and
	C409	documents.	demonstrate sub-metering
3	Controlled receptacles	Shown on plan, controls	Spot check a few receptacles, have
	C405.10	detailed	contractor demonstrate function
4	Renewable energy	Solar array shown on plans, or	Solar array in place and generating
	C412	alternative path selected	power.
5	Occ sensors	Check if shown on plans for	Spot check one or two rooms, and
	C405.2.1	space types on list in code	that Cx checked them
6	Daylight controls	Check if shown on plans at	Spot check one or two rooms, and
	C405.2.4	windows and skylights	that Cx checked them
7	Time switch controls	Check if system and sequence	Check that the system is set up and
	C405.2.2	of operations shown on plans	running.

Note: None of these seven items require an electrical inspector – any inspector can check compliance.

Electrical-related issues in the Energy Code

C405.2 Page 146 - 157 Lighting Controls

- C405.2.1 occupant sensors
- C405.2.2 Time switch controls
- C405.2.3 Manual controls
- C405.2.4 Daylight responsive controls
 - Sidelit zone
 - Toplit zone
- C405.2.5 Additional lighting controls
- C405.2.6 Exterior lighting controls
- C405.2.7 Area controls (how much can be controlled by a single switch)

C405.4 Page 158 – 169 interior lighting power

C405.5 Page 170 – 173 Exterior lighting power

C405.6 Page 173 – 174 Transformers (but who cares?)

C405.7 Page 175 Dwelling units, metering, receptacles at gas appliances

C405.8 Page 176 – 181 Motor efficiency & ECM requirements

C405.9 Page 181 Elevator & escalator

C405.10 Page 182 Controlled receptacles

C405. 11 Page 182 Voltage drop

C405.12 Page 182 Commissioning (C408)

C406 Additional efficiency packages

- Lighting power
- Renewable power

C408 Commissioning (was it completed?)

C409 Metering

C411 Solar ready (conduit and space for gear next to service panel)

C412 Renewable energy