

2016 California Electrical Code (CEC) Changes

SUMMARY

A few new requirements were added this cycle. However, most of the significant changes were modification or clarifications to existing requirements. About one-third of the changes affected master plan dwellings.

SIGNIFICANT CHANGES

NEW - CHANGE	CEC SECTION/TABLE NUMBER	COMMENTARY	MASTER PLAN IMPACT YES - NO	
<input type="checkbox"/> <input checked="" type="checkbox"/>	110.21 (B)	Field Applied Hazard markings.	<input type="checkbox"/> <input checked="" type="checkbox"/>	
<input type="checkbox"/> <input checked="" type="checkbox"/>	1102.25	Requirements for lockable disconnecting means. First steps in raising the 600v ceiling on premise wiring to 1000.	<input type="checkbox"/> <input checked="" type="checkbox"/>	
<input type="checkbox"/> <input checked="" type="checkbox"/>	110.26 (C)(3)	Requirement for all doors within 25 feet of switchgear rated 800 amps or more shall have panic hardware and open in the direction of egress.	<input type="checkbox"/> <input checked="" type="checkbox"/>	
<input type="checkbox"/> <input checked="" type="checkbox"/>	110.26 (E)(2)	Dedicated space for electrical equipment in now required for outdoor installations.	<input type="checkbox"/> <input checked="" type="checkbox"/>	
<input type="checkbox"/> <input checked="" type="checkbox"/>	200.4	Neutral Conductors must be identified with the ungrounded conductors in multi-wire branch circuits.	<input type="checkbox"/> <input checked="" type="checkbox"/>	
<input type="checkbox"/> <input checked="" type="checkbox"/>	210.5 (C)(2)	Identification of positive and negative conductors in DC systems.	<input checked="" type="checkbox"/> <input type="checkbox"/>	
<input type="checkbox"/> <input checked="" type="checkbox"/>	210.8 A 910	Laundry Area and within 6 feet of sink for refrigerator and garbage disposal?	<input checked="" type="checkbox"/> <input type="checkbox"/>	
<input type="checkbox"/> <input checked="" type="checkbox"/>	210.8(B)(8)	All commercial garages and service bays. GFCI outlet	<input type="checkbox"/> <input checked="" type="checkbox"/>	
<input type="checkbox"/> <input checked="" type="checkbox"/>	210.8(D)	GFCI protection on all dishwashers in dwelling units.	<input checked="" type="checkbox"/> <input type="checkbox"/>	
<input type="checkbox"/> <input checked="" type="checkbox"/>	210.12 A	AFCI protection added to kitchen and laundry areas.	<input checked="" type="checkbox"/> <input type="checkbox"/>	
<input type="checkbox"/> <input checked="" type="checkbox"/>	210.12 (C)	AFCI required on dormitory units.	<input type="checkbox"/> <input checked="" type="checkbox"/>	
<input type="checkbox"/> <input checked="" type="checkbox"/>	210.13	GFCI Protection on equipment and service feeders 1000amps or higher 277/480.	<input type="checkbox"/> <input checked="" type="checkbox"/>	
<input type="checkbox"/> <input checked="" type="checkbox"/>	210.17	Vehicle charging equipment shall have no other outlets.	<input type="checkbox"/> <input checked="" type="checkbox"/>	
<input type="checkbox"/> <input checked="" type="checkbox"/>	210.52 E1	Outdoor receptacles readily accessible from grade level.	<input checked="" type="checkbox"/> <input type="checkbox"/>	
<input type="checkbox"/> <input checked="" type="checkbox"/>	210.52 G	Garage receptacles to be deducted to garage only and at least 1 receptacle for each car space.	<input checked="" type="checkbox"/> <input type="checkbox"/>	

SIGNIFICANT CHANGES (cont'd)

NEW - CHANGE	CEC SECTION/TABLE NUMBER	COMMENTARY	MASTER PLAN IMPACT YES - NO
<input type="checkbox"/> <input checked="" type="checkbox"/>	210.64	1 receptacle to be installed within 50 feet of all service equipment.	<input checked="" type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	220.12	Lighting loads to be calculated by local energy codes.	<input checked="" type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	230.44	Cable trays to be labeled every 10 feet when service entrance conductors are in it.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	250.166	Added a maximum size for DC GEC to 3/O cu. or 250 alum.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	300.6	Field threading of rigid conduit must be protected from corrosion.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	310 15 B7	Service feeders for dwelling units table has been removed. They are allowed to be 83% of OCPD they are serving.	<input checked="" type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	334.40 B	NMC interconnectors allowed without box and concealed.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	406.3 E	All controlled receptacles shall be marked with the same symbol.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	406.9 (1)	All outdoor receptacles to have extra duty rated in use covers.	<input checked="" type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	406.12	All 125v receptacles in hotel, motel rooms/suites and child care facilities shall be tamper resistant.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	408.4(B)	Panelboards and switchboard fed from more than one source must be labeled what sources and where they are located.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	410.6	All retrofit kits for lamp holders and LTG must be listed.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	410.130 G1	All fluorescent LTG containing serviceable ballast shall have a disconnecting mean in each LT.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	422.5	GFCI devices for protection of appliances, drinking fountains, vending and vacuum cleaners must be readily accessible.	<input checked="" type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	422.23	GFCI protection for tire inflation and vacuums in commercial applications	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	440.9	Equipment ground conductor required in all outdoor HVAC equipment in LFMC and EMT	<input checked="" type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	517.2	Several changes in Healthcare Facilities in definitions patient care areas and operating rooms.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	590.4(D)(2)	All temp power 125 and 250v 15 20 amp receptacles to have extra duty in-use covers.	<input type="checkbox"/> <input checked="" type="checkbox"/>

SIGNIFICANT CHANGES (cont'd)

NEW - CHANGE	CEC SECTION/TABLE NUMBER	COMMENTARY	MASTER PLAN IMPACT YES - NO
<input type="checkbox"/> <input checked="" type="checkbox"/>	590.4(J)	Cable assemblies and flexible cords used for temporary power distribution are prohibited from being laid on the floor and must be protected from physical damage.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	600.4 (E)	Signs, outline lighting and retrofit kits require field wiring and installation instructions.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	690	Many changes to PV installation.	<input checked="" type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	700.8	Surge protection on panelboards for emergency systems.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	700.24	Emergency lighting cannot be part of a dimmer system or must be listed for use in an emergency lighting system.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	646	Modular Data Centers	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	393	Suspended low voltage power distribution.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	728	Fire resistive cable system.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	750	Energy management systems.	<input type="checkbox"/> <input checked="" type="checkbox"/>