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1	Code	Description		T C s	grt	Notes	Intent	Existing Law or Regulation:	Compliance Method: Design Team	Compliance Method: Contractor	Enforcement- Plan Intake	Enforcement- OnSite Enforcement
2		requirements of Divisions 5.1 through 5.5. • • •	хо	0								
3 PDS		Planning and Design Site										
4 SP		Site Preservation			-							
5 <b>SD</b>		Site Development			-							
e 5D	5.106.1	5.106.1 Storm water soil loss prevention plan. For newly constructed projects of less than one acre, develop a Storm Water soil loss prevention plan that has been designed, specific to its site, conforming to the State Storm water NPDES Construction Permit 99-08-DWQ or local ordinance, whichever is stricter, as is required for projects one acre or more. The plan should cover prevention of soil loss by storm water run-off and/or wind erosion, of sedimentation, and/or of dust/particulate matter air pollution. Note: No state permit is required, but construction best management practices (BMPs) as approved by the local enforcing agency shall be followed. BMPs include but are not limited to the following:					The intent of this code provision is to ensure that newly constructed projects of less than one acre when soil is disturbed meet the same or similar (State Storm water NPDES [National Pollutant Discharge Elimination System] Construction Permit 99-08-DWQ or local ordinance] requirements currently required for projects one acre or more, though no notice of intent and fees to the state are required. The intent of NPDES is to prevent the discharge of surface water pollutants, dust and sediment from the project site into receiving waters in an attempt to maintain water and air quality using recognized best management practices (BMPS).	For projects that are one acre or larger in size, please	Provide a storm water soil loss prevention plan that has been prepared specific to the site and meets the State Storm Water NPDES Construction Permit 99-08-DWQ or local ordinance requirements, whichever is stricter. The plan should include BMPs and may be shown in the construction documents or can be separately submitted. It can be prepared by an individual acceptable to the design professional in charge.	identify areas that may contribute to erosion and sediment problems or any other pollutant	The reviewer and/or plan checker should review the storn water soil loss prevention plan either included with the construction documents or submitted separately to show	The inspector should check the erosion and sediment controls for conformance with the
7 7	3.106.1	Erosion and sediment control BMPs a. Scheduling construction activity b. Preservation of natural features, vegetation and soil c. Drainage swales or lined ditches to control stormwater flow d. Mulching or hydroseeding to stabilize soils Erosion control covers to protect slopes e. Protection of storm drain inlets (gravel bags or catch basin inserts) f. Perimeter sediment control (perimeter silt fence, fiber rolls) g. Sediment trap or sediment basin to retain      Enusekeeping BMPs: a. Material handling and waste management b. Building materials stockpile management c. Management of washout areas (concrete, paints, stucco, etc.) d.	*			State Water Resources	(BWPS).	Politicion Control Act.	acceptable to the design professional in charge.	Note: A sample checklist of BMPs and self- certification form may be found in Part 4 of this Guide.	DWQ or local requirements.	ouring extended storm events to verny mitigation measures.
9 <b>SD</b>	5.106.4	Control of vehicle/equipment fueling to contractor's staging area e. Vehicle and  Bicycle parking and changing rooms. Comply with Sections 5.106.4.1 and 5.106.4.2; or meet local ordinance, whichever is stricter.	ox				means of transportation in an attempt to reduce	There is NO current law or regulation for this code provision. However, there are some jurisdictions that have adopted local ordinances.			Plan intake: The reviewer and/or plan checker should review the plans and confirm that the correct number of bicycle parking racks and/or secured areas are included with the drawings and meet the requirements.	On-Site Enforcement: The inspector should review the permit set of plans to verify that al required bicycle parking requirements as shown on the plans have been provided and installed.
10 SD	5.106.4.1	Short-Term bicycle parking. If the project is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5 percent of visitor motorized vehicle parking capacity, with a minimum of one two-bike capacity rack. Long-Term bicycle parking. For buildings with over 10 tenant-occupants, provide secure bicycle parking for 5 percent of	OX.			Examples: Short-term: Visitor parking capacity at 42 x 5 percent =2.1 – Provide racks for 3 bikes.			Construction documents (plans & specifications and/or site pla should reflect the location of the required number of short-ten permanently anchored bicycle parking racks for 5 percent of visitor motorized vehicle parking capacity, with a minimum of one two-bike capacity rack.	m before the reduction is taken or outside any special zone in the calculations. This is to	The reviewer and/or plan checker should review the plans and confirm that the correct number of bicycle parking	s The inspector should review the permit set of plans to verify that all required bicycle parking requirements as shown on the plans have been provided and installed.
11 SD	5.106.4.2	secure bicycle parking for 5 percent. of tenant-occupied motorized vehicle parking capacity, with a minimum of one space. Acceptable parking facilities shall be convenient from the street and may include: 1. Covered, lockable enclosures with permanently anchored racks for bicycles; 2. Lockable bicycle rooms with permanently anchored racks; and 3. Lockable, permanently anchored bicycle lockers.	ox			Examples: Long-term: Total Vehicular parking capacity at 216 x 5 percent = 10.8 — Provide 11 spaces. If specifying lockers, consider using six two-bike lockers.			Determine which of the three options will be used to comply or identify an alternate method(s). 2. Construction documents (plans & specifications and/or site plan) should reflect the method and location of the required number of long-term secured bicycle parking facilities based on 5 percent of motorized vehicle parking capacity, with a minimum of one space.	Suggestion: Provide a calculation table or a note on the plans showing the total number of required short-term spaces by multiplying the anticipated	The reviewer and/or plan checker should review the plans and confirm that the correct number of bicycle parking racks and/or secured areas are included with the drawing and meet the requirements.	s S The inspector should review the permit set of plans to verify that all required bicycle parking requirements as shown on the plans have been provided and installed.

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1		Code	Description	M T1		sg rt	Notes	Intent	Existing Law or Regulation:	Compliance Method: Design Team	Compliance Method: Contractor	Enforcement- Plan Intake	Enforcement- OnSite Enforcement
-		Couc	Description		_ ,	,	Hotes	en	Existing Law of Regulation.	compliance method: Besign ream	compilative interior contractor	Emoreement Flan meake	Emoreciment onsite Emoreciment
											TABLE 5.106.5.2 to ensure that the correct number of designated parking stalls is being		
							Examples: 1. 55 total parking				provided. Include all parking spaces in the		
			Designated parking. Provide designated parking for any combination of low-emitting,				spaces: based on TABLE	This code provision is to ensure that newly		<b>Design Team:</b> Construction documents (site plan) should reflect the location of the required number of designated	calculation. As approved by the enforcing agency, some compact stalls may also be		
			fuel efficient, and carpool/van pool vehicles as follows: Table 5.106.5.2 not shown refer				5.106.5.2 – Provide 6 Clean Air Vehicle spaces which fall within	constructed projects provide designated parking for clean air vehicles (low-emitting, fuel		parking stalls with the marking "CLEAN AIR VEHICLE" toward the back of the stall, similar to an accessible	marked for clean air vehicles. <b>Examples:</b> 1. <b>55 total parking spaces:</b> based on TABLE		
			to Code 5.106.5.2.1 Parking stall marking. Paint, in the paint used for stall striping, the				the range. 2. 240 total parking spaces: based on TABLE	efficient, and carpool/van pool vehicles) which		symbol, so that the writing can be seen when a clean air	5.106.5.2 – Provide 6 Clean Air Vehicle spaces which fall within the range 2. <b>240</b>		
			following characters such that the lower				5.106.5.2, calculate 240 x 8	gives reserved parking to those who drive clean air vehicles. The intent is to promote the		vehicle is parked. Lettering should be at least 8 inches high. The parking stalls can be located anywhere on the	total parking spaces: based on TABLE	Plan Intake: The reviewer and/or plan checker should	
			edge of the last word aligns with the end of the stall striping and is visible beneath a				percent = 19.2 - Provide 20 Clean Air Vehicle spaces. Diagram in	use of clean air vehicles in an attempt to conserve natural resources and reduce green	There is <b>NO</b> current law or regulation for this code provision. However, there are some	site without preferential location. <b>Suggestion:</b> The plans should reflect the total number of required vehicular	5.106.5.2, calculate 240 x 8 percent = 19.2 – Provide 20 Clean Air Vehicle spaces.	review the plans and confirm that the correct number and configuration of "CLEAN AIR VEHICLE" parking stalls are	On-Site Enforcement: The inspector should review the permit set of plans to verify that
12	5D 5.	.106.5.2	parked vehicle: CLEAN AIR VEHICLE Comply with lighting power requirements in the	ЭX			development.	house gas emissions.	jurisdictions that have adopted ordinances.	spaces and refer to	Diagram in development.	included on the drawings.	the correct number of clear air vehicle parking stalls have been provided and marked
			California Energy Code, CCR, Part 6, and design							FIRST: Comply with			
			interior and exterior lighting such that zero direct- beam illumination leaves the building site. Meet						There are several existing codes that are being	California Energy Commission regulations in Part 1 and Part 6 cited above. Those standards form a basis upon			
			or exceed exterior light levels and uniformity						referenced in this provision as follows: 1.	which to build for the purpose of light pollution reduction in			
			ratios for lighting zones 1-4 as defined in Chapter 10 of the California Administrative Code, CCR,						Lighting power requirements in the California Energy Code, CCR, Title 24, Part 6. 2. Exterior	addition to energy efficiency. The provisions in Part 1 provide a weighted approach to the project site location,			
			Part 1, using the following strategies:  1. Shield all exterior luminaires or provide cutoff						light levels and uniformity ratios for lighting zones 1-4 as defined in Chapter 10 of the	with a project located in the middle of a big city allowed more light to escape than a project at a rural or urban		Plan Intake: The reviewer and/or plan checker should	
			luminaries per Section 132 (b) of the California					The intent of this code provision is to ensure	California Administrative Code, CCR Title 24,	location. Part 6 addresses power and energy efficiency of		review the construction documents, including exterior light sources, to confirm compliance with Part 1, Part 2 and Part	
			Energy Code. 2. Contain interior lighting within each source. 3. Allow no more than .01 horizontal					that newly constructed projects reduce the amount of light and glare from both interior and	Part 1. 3. Requirements for cutoff luminaries per Section 132 (b) of the California Energy	outdoor lighting. There are exceptions for certain occupancies for lighting power requirements, and		6; review the electrical plans and specifications for complying building and exterior lighting, including	On-Site Enforcement: The inspector should review the permit set of plans to verify that all lighting and power calculations and specified products are installed as specified on the
			lumen foot candles to escape 15 feet beyond the site boundary. 4. Automatically control exterior					exterior light sources leaving the site. This is an attempt to minimize light pollution in order to	Code. 4. California Building Code, CCR title 24, Part 2 Section 1205.6 exception regarding	generally, they would apply to this provision, but voluntary		photometric data for perimeter site lighting fixtures; and review specifications for any controls to be installed on the	approved plans and specifications. The inspector may make a site visit after dark when all fixtures and amenities are installed to make visual assessments and take light
13	5D 5.		lighting dusk to dawn to turn off or lower light	ox				maintain our dark skies.	campus lighting for parking and walkways.	compliance with any or all of the items is encouraged.  THEN:		project.	measurements within 15 feet of the property line.
										If custom lighting is needed, have it shielded to prevent uplight equivalent to cutoff fixtures. This could be an expensive			
										option that may require photometric measurement. 2. Select			
			Shield all exterior luminaires or provide cutoff luminaries per Section 132 (b) of the California							cutoff exterior lighting fixtures that meet the definition in Section 5.102 of CALGreen, for installation at the building and			
14			Energy Code.	ox						the site.			
										Lay out lighting to prevent light from shining through windows or screen walls. 2. Design exterior shading features			
										that also serve as screens at night. 3. Design indirect interior lighting, e.g. coved, at the perimeter or locate fixtures inside the			
										exterior walls to shine into the space. 4. Specify shielded			
										fixtures, e.g. sconces, in corridors and on building exterior, fixtures that prevent uplight. 5. Specify interior task lighting, e.g.			
										under-cabinet. 6. Specify perimeter window coverings, e.g.			
										blinds. 7. Include instructions in the Operations and Maintenance Manual for extinguishing lights or drawing blinds			
15			Contain interior lighting within each source.	ΟX	+					when it gets dark, and recommend daylight janitorial services.			
										Avoid locating parking or site lighting fixtures adjacent to the			
										property line, or choose perimeter fixtures whose photometrics			
										are asymmetrical, focusing light on the site's interior. 2. Provide trees or man-made screens around perimeter of site. 3. As			
			3. Allow no more than .01 horizontal lumen foot							approved by the enforcing agency, multiple sites in a development or sites sharing common functions may be			
			candles to escape 15 feet beyond the site							included within an overall site boundary for the purposes of this			
16			boundary.	OX						section.			

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1	Code	Description	1	E n 3 f. r A In d g st. P n De a f c sg rt y nr y	Notes	Intent	Existing Law or Regulation:	Compliance Method: Design Team	Compliance Method: Contractor	Enforcement- Plan Intake	Enforcement- OnSite Enforcement
17		Automatically control exterior lighting dusk to dawn to turn off or lower light levels during inactive periods.	ox					For occupancies that operate principally only during daylight hours, specify photo sensors to turn off exterior lighting between dawn and dusk. 2. Employ new dimming technologies that sense motion and activate lighting only as needed.			

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	Code	Description	DA T1	E   n   f.   A   In   g   st.   n   De   T   c   sg   2   y   nr	P a rt	Intent	Existing Law or Regulation:	Compliance Method: Design Team	Compliance Method: Contractor	Enforcement- Plan Intake	Enforcement- OnSite Enforcement
1	Coue	-	IVI II	2 y III	y Notes	intent	Existing Law of Regulation.	Compliance Method. Design Team	Compliance Method. Contractor	Lillorcement- Flan Ilitake	Linorcement-Offsite Linorcement
		Energy Efficiency									
18 EEP		Performance									
19 <b>EEP</b>	5.201.1	Scope. The California Energy Commission will continue to adopt mandatory building standards.	OX		5.201.1 Scope. For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards. Note: It is the intent of this code to encourage buildings to achieve exemplary performance in the area of energy efficiency. For the purposes of energy efficiency standards, the California Energy Commission believes specifically, a green building should achieve at least a 15 percent reductionin energy usage when compared to the State's mandatory energy efficiency standards.	The intent of this code provision is to recognize that the California Energy Commission retains its authority for energy efficiency standards. While not required by this code, a 15 percent reduction in building energy usage compared to current mandatory energy efficiency standards is recommended by the Energy Commission.	those required in the California Energy Code	Meet the minimum mandatory energy efficiency standards as currently required by California Energy Code, CCR Title 24, Part 6.		Plan Intake: The reviewer and/or plan checker should review the plans, Title 24 Energy Compliance Forms and specifications as currently done for other portions of the code.	On-Site Enforcement: The inspector should review the permit set of plans to verify that all energy efficiency standards as specified on the approved plans and specifications are installed

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	Cada	Description			sgrt	Notes	Intent	Evisting Law on Deculation.	Compliance Method: Design Team	Compliance Method: Contractor	Enforcement- Plan Intake	Enforcement- OnSite Enforcement
1	Code	Description  Description	IAI 11	2 y	nr y	Notes	Intent	Existing Law or Regulation:	Compliance Method: Design Team	Compliance Method: Contractor	Enforcement- Plan Intake	Enforcement- Onsite Enforcement
20 EEP		Prescriptive Measures										
21 EEP		Renewable Energy										
		Elevators, Escalators										
22 EEP		and Other Equipment	0	Ш								
23 EEP		Energy Efficient Steel										
		Water Efficiency and										
24 <b>WE</b>		Conservation Indoor										
						For each individual leased,						
						rented, or other tenant space within The inte						
							water use in new buildings over 50,000 feet or consumption in excess of 1,000					
						spaces used for laundry or gal/day t	by making building owners and/or					
							aware of their daily potable water ption to encourage voluntary reduction				Plan Intake: The reviewer and/or plan checker should	
		Meters. Separate meters or metering				office,laboratory, or beauty salon or of potable	ble water use. Note: Owner billing of		First determine if the new project will require separate meters		review the plans and specifications to confirm that separate	On-Site Enforcement: The inspector should review the permit set of plans to verify that all
25 <b>WE</b>	5.303.1	devices shall be installed for the uses described in Sections 503.1.1 and 503.1.2.	ox				based on actual use is not intended but oblibited.	There is <b>NO</b> current law or regulation for this code provision.	based on the 50,000 square foot or excess consumption regulation. If so then:		meters and/or metering devices are specified on the plans when required.	separate submeters and/or metering devices are installed as specified on the approved plans and specifications.
		5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be										
26 WE		installed as follows:										
									1. Determine if your leased, rented, or other tenant space within	n		
									the 50,000 square foot building (including spaces used for laundry or cleaners, restaurant or food service, medical or			
									dental office, laboratory, or beauty salon or barber shop) is			
		For each individual leased, rented or other							projected to consume more than 100 gal/day. If so, then provide separate submeters to be installed by the owner or			
		tenant space within the building projected to							contractor after the main meter supplied by the utility. 2. If any			
27		consume more than 100 gal/day.  2. For spaces used for laundry or cleaners,	ox						building within a project or space within a building is projected Suggestion: Show separate meters on the plans (Site Utility Plan	)		
		restaurant or food service, medical or dental							and provide specifications for the submeters and/or metering			
28 WE		office, laboratory or beauty salon or barber  Excess consumption. Any building within a	OX						devices.			
20 14/5	5.303.1.2	project or space within a building that is projected to consume more than 1,000	ov o									
29 <b>WE</b>	3.303.1.2	projected to consume more than 1,000	0.0	0		CALGreen Section: 5.303.2 Twenty			using one of the following methods: 1. Prescriptive Method:			
						percent savings. A schedule of plumbing fixtures and fixture fittings			Refer to Table 5.303.2.3 and select the plumbing fixtures and			
						that will reduce the overall use of			fittings with the reduced flow rates. OR 2. Performance Method: Refer to Table 5.303.2.2 and provide a calculation			
		20 percent savings. A schedule of plumbing				potable water within the building by 20 percent shall be provided. The			demonstrating a 20 percent reduction in the building "water use baseline" as established in the table. <b>Suggestion:</b> For the		The reviewer and/or also absolute about describer the also	
		fixtures and fixture fittings that will reduce the overall use of potable water within the					nt of this code provision is to reduce the		Prescriptive Method, provide a note on the plans and specify the	•	The reviewer and/or plan checker should review the plans and specifications to confirm that either the prescriptive or	The inspector should review the permit set of plans to verify that the specified water
		building by 20 percent shall be provided.				plumbing fixture and fittings as required overall us	se of potable water within the building by 20 The Governor issued a proclamation in	AB 715 (Stats 2007, c. 499) modified the Health and	fixtures and fittings that meet the requirement. For the Performance Method, provide a plumbing calculation on the		performance method has been submitted and check for the 20 percent water reduction compliance. If the performance	efficient plumbing fixtures and fixture fittings are installed. If the performance method was used, the inspector will verify that fixtures or systems used to reduce overall water use by
30 <b>WE</b>	5.303.2	(Calculate savings by Water Use Worksheets)	ov			Code. The 20 percent reduction in	iking 20 percent water use reduction a	Safety Code to allow only high-efficiency toilets and urinals to be sold or installed after January 1, 2014.	plans demonstrating an overall 20 percent water use reduction. Sample worksheets are included in Part 4 of this Guide.		method is used, review the water calculations showing the 20 percent reduction.	20 percent have been installed. The inspector may review the fixture specifications to verify compliance or accept self-certification form.
30 WE	J.JUJ.2		OA.	H		Exception: The maximum flow rate for	o godi.	annual to be sold of installed after January 1, 2014.	the flow at the valve that serves all the showerheads to		no possent reduction.	compliance of acception continuation form.
						shower heads when using the			provide no more than 2 gpm @ 80 psi as specified in the			
						calculation method specified in Section 5.303.2, Item 2 is 2.5 gpm @ 80 psi The intel	ent of this code provision is to establish		20 percent reduction column contained in Table 5.303.2.3. 2. Specify the flow rate of the showerheads to produce a			
		Multiple showerheads serving one shower.				Suggestion: that the	maximum flow rate in the 20 percent		combined flow rate of no more than 2 gpm @ 80 psi as			
		When single shower fixtures are served by more than one showerhead, the combined					on table covers all applications where prays from multiple sources at one time.		specified in the 20 percent reduction column contained in Table 5.303.2.3. 3. Specify a valve that is designed to			
		flow rate of all the showerheads shall not				single shower fixture shall have a	the intent to permit multiple		allow only one showerhead to be in operation at a time			The inspector should review the permit set of plans to verify that the specified
		exceed the maximum flow rates specified in the 20 percent reduction column contained in					ident water supply lines to a single enclosure. This is intended to cover a		witha maximum flow rate of 2 gpm @ 80 psi. 4. Performance Method: Refer to Table 5.303.2.2 and		and confirm that multiple shower heads specified meet the combined flow rates on the tables or that they are	showerheads and/or water reducing fittings are installed. If the performance method was used, the inspector will confirm that showerheads or systems used to reduce overall water
		Table 5.303.2.3 or the shower shall be				maximum flow rates specified in the 20 single sh	hower enclosure or space. In multiple		provide a calculation demonstrating a 20 percent		plumbed to operate independently or that the	use by 20 percent have been installed. The inspector may review fixture specifications
31 WE	5.303.2.1	designed to only allow one showerhead to be in operation at a time. • •	ox				spaces or gang showers, the ment shall apply to each shower.	There is <b>NO</b> current law or regulation for this code provision.	reduction in the building "water use baseline" with a maximum combined flow rate of 2.5 pm@80 psi for		performance method does not exceed the combined maximum flow rates.	provided by the manufacturers as verification of compliance. Testing of flow rates may be done at the inspector's discretion.
31 WL						ALGreen Section: 5.303.4	and apply to odon offorton.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Demonstrate a 20 percent waste water reduction by using			Early
						Wastewater reduction. Each building shall reduce by 20 percent			one of the following methods: 1. Comply with the 20% water use reduction provision of section 5.303.2 discussed			
						wastewater by one of the following			above. 2. Where available and/or permitted by the local		The reviewer and/or plan checker should review the plans	
						methods: 1. [DSA-SS] The installation of water-conserving		Chapter 16A of the California Plumbing Code	jurisdiction, utilize non-potable water systems (captured rainwater, graywater, and municipally treated wastewater		and confirm that either the water-conserving fixtures	The inner decade and an involve and the second seco
		W				fixtures (water closets, urinals) The inter	ent of this code provision is to reduce	(CPC) regulates residential graywater and dual	[recycled water]). 3. Use waterless urinals. 4. Irrigate		(prescriptive or performance) method has been submitted and check for the 20 percent waste water reduction	The inspector should review the permit set of plans to verify that the specified water efficient plumbing fixtures and fixture fittings are installed. If the performance method was
		Wastewater reduction. Each building shall reduce the generation of wastewater by one	Α				ater discharge potable and non-potable, municipal sewer system, thereby	plumbing for residential and nonresidential recycled water systems. Appendix G contains	landscape with graywater from fixtures or appliances per CPC Appendix G <b>Suggestion</b> : Provide a note on the		compliance. If the non-potable water systems method will be used, confirm availability and compliance with local	used, the inspector will verify that the 20 percent waste water reduction as approved has been followed. If a non-potable water systems is installed, the inspector will confirm that it
	5.303.4	of the following methods:	Α			Utilizing nonpotable water systems reducing	g energy used in sewage treatment.	provisions for nonresidential graywater.	plans stating the method of compliance to be used.		ordinance.	meets local ordinances and operates properly.
33 WE 34 WE		fixtures or applicable	ox ox									
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	Code	Description		E n f. A In g st. n De T c sg 2 y nr	P a rt	Intent	Existing Law or Regulation:	Compliance Method: Design Team	Compliance Method: Contractor	Enforcement- Plan Intake	Enforcement- OnSite Enforcement
		·		Í			AB 715 (Stats. 2007, c. 499) modified the Health	, j	•		
							and Safety Code to specify standards for high				
							efficiency toilets and urinals. AB 1953 (Stats. 2006, c. 853) changed the code to redefine				
							"lead free plumbing" to reduce the amount of				
							lead allowed in potable water fittings and				
					CALGreen Section: 5.303.6		fixtures effective January 1, 2010. (AB 1953 is				
					Plumbing fixtures and fittings.		referenced in Section 604.10 of the California			Plan Intake: The reviewer and/or plan checker should	
		Plumbing fixtures and fittings. Plumbing			Plumbing fixtures (water closets	The intent of this code provision is to provide	Plumbing Code.) Subsequent legislation in SB	Specify plumbing fixtures and fittings to meet the		review the plans and specifications to confirm that	On the Following of The Secretary In the Secretary Secre
		fixtures (water closets and urinals) and			and urinals) and fittings (faucets	specifications for plumbing fixtures and fittings by	1334 (Stats. 2008, c. 580) and SB 1395 (Stats.	reference standards on Table 5.303.6. Note: If the		standards on Table 5.303.6. If the performance method is	On-Site Enforcement: The inspector should review the permit set of plans to verify that the specified fixtures and fittings that meet the reference standards on Table 5.303.6 have
		fittings (faucets and showerheads) shall			and showerheads) shall meet the	referencing US EPA Water Sense labels and ASME	2008, c. 581) required that products be certified	performance method of compliance is used and a trade		used and the water calculations produce a 20 percent	been installed. If the performance method was used, the inspector will verify that fixtures or
		comply with the requirements listed for each	Α		standards referenced in Table	standards for fixtures that can be used to meet the	as to lead levels by an ANSI-accredited third	off is included in the calculation, not all fixtures need to		reduction, it is possible that not all water closets and flush	systems used to reduce overall water use by 20 percent have been installed, including any
	5.303.6	type in Items listed in Table 5.303.6.	Α		5.503.6.	20 percent water use reduction.	party.	meet these standards.		urinals will meet the standards on Table 5.303.6.	water closets and flush urinals which do not meet the standards on Table 5.303.6.
36 <b>WE</b>		Water closets (toilets) – flushometer type									
37 <b>WE</b>											
38 <b>WE</b>			ох								
39 <b>WE</b>		,	ох								
40 <b>WE</b>			ох								
41 <b>WE</b>		6. Residential bathroom lavatory sink faucets									
42 <b>WE</b>											
43 <b>WE</b>			ох								
		Single shower fixtures served by more									
44 <b>WE</b>		than one showerhead As applicable	OX								

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1	Code	Description	M T1	2 y	nr y	Notes	Intent	Existing Law or Regulation:	Compliance Method: Design Team	Compliance Method: Contractor	Enforcement- Plan Intake	Enforcement- OnSite Enforcement
45 WE		Outdoor Water Use								·		
45 WE		Water budget. A water budget shall be										
		developed for landscape irrigation use that				Note: Prescriptive measures and compliance forms to assist in		TI 0 IV : D	Develop a water budget using one of the following methods: 1. Check with your local jurisdiction to confirm whether a local			
		conforms to the local water efficient landscape ordinance or to the California				compliance with the water budget are		The California Department of Water Resources has adopted a Model Water Efficient Landscape	water efficient landscape ordinance is in place and if so develop			
		Department of Water Resources Model				listed in Sections 492.5 through 492.8,		Ordinance (MLO) which requires that a water	a water budget for landscape irrigation that conforms to the		Plan Intake: The reviewer and/or plan checker should review the construction documents for calculations to	
		Water Efficient Landscape Ordinance where no local ordinance is applicable. Note:				492.10 and 492.11 of the ordinance, which may be found at:	The intent of this code provision is to reduce the overall outdoor potable water use by	budget be developed that is currently in effect.  There are some local jurisdictions that have	local ordinance. Or 2. Develop a water budget for landscape irrigation use that conforms to the California Department of		confirm that a water budget is developed by either using	
		Prescriptive measures to assist in				http://www.owue.water.ca.gov/landsc		adopted water efficient landscape ordinances	Water Resources Model Water Efficient Landscape Ordinance		the local ordinance and/or the California Department of Water Resources Model Water Efficient Landscape	On-Site Enforcement: The inspector should review the permit set of plans and calculations to verify that the approved water budget as specified is followed during
46 <b>WE</b>	5.304.1	compliance with the water budget are listed	ох			ape/ord/ord.cfm	landscape irrigation.	that may be more restrictive.	for landscaped areas 2,500 square feet or more.		Ordinance.	construction. The MLO or local ordinance compliance forms may serve this purpose.
							The intent of this code provision is to reduce outdoor potable water use for new water					
							service for landscaped areas between 1,000					
							square feet and 5,000 square feet by making	AD 4004 (Ot-t- 0000 - 550)				
		5.304.2 Outdoor potable water use. For new					building owners and/or tenants aware of their daily outdoor potable water consumption for	AB 1881 (Stats. 2006, c. 559) currently requires that a separate water meter be installed by the	How to comply: First determine if the new project will require			
		water service for landscaped areas between					landscaping. Additionally, it allows the	water purveyor for new water service serving	separate meters based on the 1,000-5,000 square foot			
		1,000 square feet and 5,000 square feet (the level at which Water Code §535 applies), separate					consumer to monitor water use to identify	more than 5,000 square feet of irrigated	landscape area. If so then: 1. Owner or contractor shall install a submeter after the main meter for outdoor potable water use.			
		meters or submeters shall be installed for indoor					spikes that may occur due to leaks in irrigation systems. Water loss attributed to leaks can be	landscape. There might be some local jurisdictions that have adopted ordinances that	Suggestion: Show separate meters and submeters on the plans		Plan Intake: The reviewer and/or plan checker should review the construction documents to confirm that a	On-Site Enforcement: The inspector should review the permit set of plans to verify that
47 <b>WE</b>	5.304.2	and outdoor potable water use.	ох				substantial.	may be more restrictive.	(Site Utility Plan) and specifications.		separate submeter for landscape irrigation was provided.	separate meters as specified on the approved construction documents are installed.
									1,000-2,500 square feet. If so then: Determine which type of			
									controller is going to be installed (weather based versus soil-			
		Irrigation design. In new nonresidential projects with between 1,000 and 2,500					The intent of this code provision is to reduce	The California Department of Water Resources has adopted a Model Water Efficient Landscape	moisture based). If specifying a weather-based controller, make sure that it either has an integral rain sensor, or provide a			
		square feet of landscaped area (the level at				Suggestion: Show on the plans	outdoor potable water use for new construction	Ordinance (MLO) which requires that irrigation	separate sensor. Install all components of the irrigation control			On-Site Enforcement: The inspector should review the permit set of plans to verify that
		which the MLO applies), install irrigation				(Landscaping Plan) and specifications	landscaped areas between 1,000 square feet		system per the manufacturer's instructions. Note: More			irrigation controllers and sensors as specified on the approved construction documents are
		controllers and sensors which include the following criteria and meet manufacturer's				the irrigation controllers and sensors and design criteria outlined in section	and 2,500 square by requiring the installation of irrigation controllers and sensors that are		information regarding irrigation controller function and specifications is available from the Irrigation Association at		Plan Intake: The reviewer and/or plan checker should review the construction documents to confirm that irrigation	installed according to the manufacturer's instructions and as shown on the irrigation design n plan. The inspector may accept a certification form as a method of compliance, including
48 WE	5.304.3	recommendations.				492.7 of the MLO.	weather-or soil moisture-based.	local jurisdictions that have adopted ordinances.	http://www.irrigation.org/SWAT/Industry/ia-tested.aspx		controllers and sensors are weather-or soil moisture-based	d. any forms used for compliance with MLO or local ordinance.
						5.304.3.1 Irrigation controllers. Automatic irrigation system						
						controllers installed at the time of						
						final inspection shall comply with the following:1. Controllers shall be						
						weather- or soil moisture-based						
						controllers that automatically adjust						
						irrigation in response to changes in plants' needs as weather conditions						
						change. 2. Weather-based						
		Irrigation controllers. Automatic irrigation				controllers without integral rain						
		system controllers installed at the time of final inspection shall comply with the				sensors or communication systems that account for local rainfall shall						
49 WE	5.304.3.1	following:	aa			have a separate wired or wireless						
		Controllers shall be weather- or soil     moisture-based controllers that automatically										
50 WE		adjust irrigation in response to changes in	ох									
		Weather-based controllers without integral rain sensors or communication systems that										
		account for local rainfall shall have a										
		separate wired or wireless rain sensor which										
51 W/F		connects or communicates with the controller(s). Soil moisture-based controllers	ox									
51 WE 52 WE												
		Material Conservation										
	1	and Resource Efficiency										
53 246	1	Efficient Framing										
53 MC 54		Linoient i failing								1		
55 MS		Material Sources										
55 MS 56 MS												
		Enhanced Durability and										
57		Reduced Maintenance										
J.												

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1	Code	·	M T1	2 y	nr y Notes	Intent	Existing Law or Regulation:	Compliance Method: Design Team	Compliance Method: Contractor	Enforcement- Plan Intake	Enforcement- OnSite Enforcement
		Weather Resistance and									
58	WRMM	Moisture Management									
59	wrmm 5.407.1	Weather protection. Provide a weather- resistant exterior wall and foundation envelope as required by California Building Code Section 1403.2 (Weather Protection) and California Energy Code Section 150, (Mandatory Features and Devices), manufacturer's installation instructions, or local ordinance, whichever is more stringent.	ох			The intent of this code provision is to provide a weather-resistant exterior wall and foundation envelope as currently required by California Building Codes. This measure is to spotlight those existing code provisions and increase the integrity and longevity of the structure.	Currently this code provision is regulated by California Building Code Section 1403.2 (Weather Protection) and California Energy Code Section 150, (Mandatory Features and Devices for lowrise residential) and some local ordinances.	Design Team: Determine local conditions that may affect the amount of moisture that might penetrate the envelope due to weather, wind-driven rain or exposure to salt spray, etc. For example, the protection measures in Section 150 of the energy code are required for Climate Zones 14 & 16, in the mountains. Design and detail exterior wall systems to reflect local findings, specifying appropriate materials and vapor retardance. Show on the plans and specifications. Suggestion: Pay particular attention to openings and changes of material in detailing exterior wall systems.	Contractor: Install any exterior wall system in accordance with architectural details and manufacturer's installation instructions. Suggestion: Systems like exterior insulation and finish systems, if not installed to manufacturer's installation instructions, have the potential for moisture penetration and condensation that may lead to mold, structural failure, and increased liability.	Plan Intake: The reviewer and/or plan checker should review the construction documents to confirm that the exterior wall and foundation envelope meets the California Building Code Section 1403.2 (Weather Protection) and California Energy Code Section 150. (Mandatory Features and Devices for low-rise residential) and/or local ordinances are being met.	On-Site Enforcement: The inspector should review the permit set of plans to verify that the exterior wall and foundation envelope as specified on the approved plans and specifications are installed.
		Moisture control. Employ moisture control					There is NO current law or regulation for this code				
	WRMM 5.407.2 WRMM 5.407.2.1	measures by the following methods;  Sprinklers. Prevent irrigation spray on structures.	ox		Design and maintain landscape irrigation systems to prevent spray on structures.		provision.	For Sprinklers: Design irrigation systems to prevent spray on structures by specifying sprinkler heads which are adjacent to or near exterior walls to have a maximum degree head rotation or spray pattern that ensures protection of the building exterior.		Plan Intake: The reviewer and/or plan checker should review the plans and specifications to confirm that the sprinkler design and design features at entries and openings are included in the submitted plans.	On-Site Enforcement: The inspector should review the permit set of plans to verify that the sprinkler design and design features at entries and openings as specified on the approved plans and specifications are installed per specifications.
62	WRMM 5.407.2.2	Entries and openings. Design exterior entries and openings to prevent water intrusion into buildings. • • Construction Waste	ox		Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings. Notes: 1. Use features such as overhangs and recesses, and flashings integrated with a drainage plane. 2 Use non-absorbent floor and wall	The intent of this code provision is to minimize the amount of moisture entering the building; at the exterior entries & openings from wind-, driven rain and at exterior walls from poorly designed sprinkler systems.	There is <b>NO</b> current law or regulation for this code provision.	For entires and openings:1. Use design features such as overhangs and recesses, and flashings integrated with a drainage plane. 2. Specify non-absorbent flooring material at the interior landing surface a minimum of two feet in the direction of travel and at wall finishes adjacent to the door opening on the sides and at the top. If two feet is not available above the opening, wall finishes may terminate at the ceiling. Suggestion: Show on the plans		Plan Intake: The reviewer and/or plan checker should review the plans and specifications to confirm that the sprinkler design and design features at entries and openings are included in the submitted plans.	On-Site Enforcement: The inspector should review the permit set of plans to verify that the sprinkler design and design features at entries and openings as specified on the approved plans and specifications are installed per specifications.
	CWR 5.408.1	Reduction, Disposal and  Construction waste diversion. Establish a construction waste management plan for the diverted materials, or meet local construction and demolition waste management ordinance, whichever is more stringent.	ох		Construction waste diversion. Establish a construction waste management plan or meet local ordinance, whichever is more stringent.	the construction Waste Management Plan (WMP) o local ordinance.	AB 939 (Stats. 1989, c. 1095) as amended (WMA) made all California cities, counties, and approved regional solid waste management agencies responsible for enacting plans and implementing programs to divert 25 percent of their solid waste by 1995 and 50 percent by year 2000.	How to comply: If no local construction waste diversion ordinance exists then establish a construction waste management plan and identify the construction waste materials to be diverted from disposal as well as the diversion facility where the material will be taken. The requirements for the WMP are indicated in the regulation above. Notes: Sample WMP form provided in Part 4 of this Guide can be used to		The reviewer and/or plan checker should review the set of plans, specifications and/or forms to confirm that a WMP for diverted materials has been included with the plan submittal, that a local ordinance is cited as the method of compliance, or that an exception should be granted for an isolated job site that lacks access to a recycling facility or markets.	The inspector should review the approved WMP or Exception (Isolated jobsite) to verify that the identified materials are being diverted as specified.
65	CWR 5.408.2	Construction waste management plan. Submit plan per this section to enforcement authority.	ox		Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan for approval by the enforcement agency that: 1. Identifies the materials to be diverted from disposal by efficient usage, recycling, reuse on the project, or salvage for future use o sale. 2. Determines if materials wil 5.408.2.1 Documentation.  Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 5.408.2 items 1 thru 4. The waste management plan shall be updated as necessary and shall be						
66	CWR 5.408.2.1	Documentation. Provide documentation of the waste management plan that meets the requirements listed in Section 5.408.2 Items 1 thru 4 and the plan is accessible to the enforcement authority.	ox		accessible during construction for examination by the enforcing agency. Exception: [DSA-SS] Jobsites in areas where there is no mixed construction and demolition debris (C&D) processor or recyclin						

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	Code	Description	NA T1	E n f. A I g s n C s 2 y r	t. P De a sg rt	Notes	labora.	Fuinting Law on Regulation	Compliance Method: Design Team	Compliance Method: Contractor	Enforcement- Plan Intake	Enforcement- OnSite Enforcement
1	Code	Description	AI IT	2 y r	ır y	Notes	Intent	Existing Law or Regulation:	Compliance Method: Design Team	Compliance Wethod: Contractor	Enforcement- Plan Intake	Enforcement- Unsite Enforcement
67 <b>CWR</b>	5.408.2.2	Isolated jobsites. The enforcing agency may make exceptions to the requirements of this section when jobsites are located in areas beyond the haul boundaries of the diversion facility.	OX.			5.408.2.2 Isolated jobsites. The enforcing agency may make exceptions to the requirements of this section when jobsites are located in areas beyond the haul boundaries of the diversion facility. NOTES: 1. Sample forms found in Chapter 8 may be used to assist in documenting compliance with the waste management plan. 2. Mixed construction and demolition debris (C&D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).	The intent of this measure is to ensure that construction waste is diverted away from landfills and re-used or recycled either in conformance with the construction Waste Management Plan (WMP) or local ordinance.	AB 939 (Stats. 1989, c. 1095) as amended (WMA) made all California cities, counties, and approved regional solid waste management agencies responsible for enacting plans and implementing programs to divert 25 percent of their solid waste by 1995 and 50 percent by year 2000.	How to comply: If no local construction waste diversion ordinance exists then establish a construction waste management plan and identify the construction waste materials to be diverted from disposal as well as the diversion facility where the material will be taken. The requirements for the WMP are indicated in the regulation above. Notes: Sample WMP form provided in Part 4 of this Guide can be used to identify diverted materials. Mixed construction and demolition debris (C&D) processors can be located at http://www.ciwmb.ca.gov/ConDemo/ .	1. Determine if a local construction waste management ordinance is in place in your jurisdiction and comply with the more stringent requirement 2. Determine what local hauling and recycling facilities are available in your area to establish the most economically feasible option for recycle and/or salvage of construction debris. If there is no facilities in your area, use Exception 2 and work with the local enforcing agency to establish an acceptable alternate. 3. Include for recycling the following materials: carpet, wood, aggregate, paint, shingles, wallboard or any other materials that have recyclable value. For more information on various materials visit the C&D Publications link on the CAL Recycle website, the Construction Waste Management (CWM) Worksheet provided in Part 4 of this Guide, or as required by local ordinance. Note: The demolition debris provision may be applicable in the CALGreen code if an EXISTING building is going to be completely torn down and a NEW building built on the same site, where both are considered to be part of the same project. This would be determined.	Plan Intake: The reviewer and/or plan checker should review the set of plans, specifications and/or forms to confirm that a WMP for diverted materials has been included with the plan submittal, that a local ordinance is cited as the method of compliance, or that an exception should be granted for an isolated job site that lacks access to a recycling facility or markets.	On-Site Enforcement: The inspector should review the approved WMP or Exception (Isolated jobsite) to verify that the identified materials are being diverted as specified.
		Construction waste. Recycle and/or salvage for reuse a minimum of 50 percent										
		of nonhazardous construction and demolition										
68 CWR	5.408.2.3	debris or meet local ordinance, whichever is	ox									
69 CWR		clearing debris.										
		Alternate waste reduction methods										
70 6440		developed by working with local agencies if diversion or recycle facilities capable of										
70 CWR		, ,								+		
71 LCA		Life Cycle Assessment										
						<u> </u>			·			

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	Co	odo	Description	NA T1	C S		Intent	Existing Law or Regulation:	Compliance Method: Design Team	Compliance Method: Contractor	Enforcement- Plan Intake	Enforcement- OnSite Enforcement
1	Co	ode	Building Maintenance	IVI II A	У	y Notes	intent	Existing Law Of Regulation.	Compilance Method: Design Team	Compliance Method: Contractor	Emortement- Plan Intake	Emortement-Offsite Emortement
72 BN	0		and Operation									
									Determine if a local recycling ordinance is in place in your jurisdiction and comply. If no ordinance; then use the model			
		I	Recycling by occupants. Provide readily						recycling ordinance. 2. Show on the plans (site and/or floor plans) readily accessible areas and signage for those areas that			
			accessible areas that serve the entire building and are identified for the depositing,					Currently there is a requirement for a model ordinance in Chapter 18, Part 3, Division 30 of the	serve the entire building for recycling of non-hazardous materials by occupants. 3. In accordance with the model			
			storage, and collection of nonhazardous materials for recycling, including (at a				The intent of this code provision is to direct attention to existing law to provide areas for	Public Resources Code. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access	ordinance, recycling areas shall be secure; be protected from th elements, such as rain; and be adequately separated from	e	The reviewer and/or plan checker should review the plans	
73 BN	0 5.410.1		minimum) paper, corrugated cardboard, glass, plastics and metals.				recycling by occupants, including collection and loading of recyclable materials.	Act of 1991 (Act) that can be used for statewide application.	occupied spaces for protection against impacts such as noise, odor and pests. 4. Where feasible, recycling areas should be		and confirm that the appropriate recycling areas and signage for those areas have been provided on the plans.	The inspector should review the permit set of plans to verify that the recycling areas and signage for those areas on the plans and specifications are installed.
			5.410.1.1 Sample ordinance. Space allocation for recycling areas shall comply									
			with Chapter 18, Part 3, Division 30 of the Public Resources Code. Chapter 18 is									
			known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).									
74 BN	0 5.410.1.	.1	Note: A sample ordinance for use by local Commissioning. For new buildings 10,000		+							
		ŀ	square feet and over, building commissioning for all building systems					Glossary Acceptance Criteria - The conditions that must be met for systems or equipment to				
		ŀ	covered by T24, Part 6, process systems and renewable energy systems shall be					meet defined expected outcomes.  Commissioning (Cx) - Building commissioning				
		ı	included in the design and construction processes of the building project.					as required in this code involves a quality assurance process that begins during design				
		i	Commissioning requirements shall include items listed in Section 5.410.2. CALGreen			The purpose of this code is to		and continues to occupancy. Commissioning verifies that the new building operates as the				
		l	Section: 5.410.2 Commissioning. For new buildings 10,000 square feet and over,			improve public health, safety a general welfare by enhancing		owner intended and that building staff are prepared to operate and maintain its systems				
		1	building commissioning shall be included in the design and construction processes of the			design and construction of buildings through the use of		and equipment. <b>Owner -</b> The individual or entity holding title to the property on which the building				
			building project to verify that the building systems and components meet the owner's			concepts that reduce negative increase positive environmenta		is constructed. <b>Commissioning Coordinator</b> - The person who coordinates the commissioning				
		ı	or owner representative's project requirements. Commissioning shall be			impacts. Commissioning is a v element in this effort. Include	al	process. This can be either a third-party commissioning provider or an experienced				
			performed in accordance with this section by trained personnel with experience on			commissioning measures or requirements in the construction	1	member of the design team or owner in-house staff member. <b>Commissioning Team -</b> The key				
			projects of comparable size and complexity.  Commissioning requirements shall include:			documents (plans and specifications). Commissioning		members of each party involved with the project designated to provide insight and carry out tasks				
			Owner's Project Requirements 2. Basis of Design 3. Commissioning measures shown			measures or requirements sho be clear, detailed and complete	to Test HVAC Heating Ventilating and Air-	necessary for a successful commissioning project. Team members may include the				
			in the construction documents 4. Commissioning Plan 5. Functional			clarify the commissioning proc	Maintenance OPR Owner's Project	commissioning coordinator, owner or owner's representative, building staff, design				
75 BN	0 5.410.2	2	Performance Testing 6. Documentation &				Requirements	professionals, contractors or manufacturer's repr	9			
										Compliance is achieved by including		
										commissioning requirements in the project specifications. The commissioning		
										specifications should include the following:  1. Primary (and optionally all) commissioning		
										requirements are included in the general specification division (typically Division 1) and		
										clear cross references of all commissioning requirements to and from the general		
										division are included to ensure all subcontractors are held to them 2. A list of		
			5.410.2 Commissioning. For new buildings							the systems and assemblies covered by the commissioning requirements. 3. Roles and		
			10,000 square feet and over, building commissioning shall be included in the							responsibilities of all parties including:  General contractor and subcontractors,		
			design and construction processes  Commissioning requirements shall include:							vendors, construction manager □ Commissioning provider lead □ Owner,		
			Owner's Project Requirements 2. Basis of Design 3. Commissioning measures							facility staff  Architect and design engineers Including the non-contractor	At their discretion, the building official	
			shown in the construction documents 4. Commissioning Plan 5. Functional				Intent: Include commissioning measures or			parties in the construction specifications is for information only to provide the contractor	At their discretion, the building official confirms demonstrated compliance at <i>Plan Intake</i> by: a) Receipt of a copy of the commissioning specifications, or b) Receipt of	f
			Performance Testing 6. Documentation & Training 7. Commissioning Report This				requirements in the construction documents (plans and specifications). Commissioning	construction documents. These test forms create a subset of the broader CalGreen		with context for their work □ Include who writes checklists and tests, who reviews and	a form signed by the owner or owner representative or designer of record attesting that the owner-approved	
			section provides details for element 3: Commissioning measures shown in the				measures or requirements should be clear, detailed and complete to clarify the	commissioning requirements described herein. Review local ordinances for additional		approves test forms, who directs tests, who executes tests, who documents test results	commissioning specifications are included in the construction documents. See (Part 4) for templates and	
77	5.410.2					Introduction:	commissioning process.	applicable requirements.		and who approves completed tests. These role		
78 79						Acceptance Criteria - The condition	ns that must be met for systems or equipment to meet	defined expected outcomes.				Acronyms: BOD Basis of Design Cx Commissioning FPT Functional Performance Test
80 81							missioning as required in this code involves a quality as olding title to the property on which the building is cons		to occupancy. Commissioning verifies that the new building oper	rates as the owner intended and that building staff a	are prepared to operate and maintain its systems and equip	ment.
82 83			personnel manage and facilitate the			Commissioning Coordinator - Th	person who coordinates the commissioning process. The	is can be either a third-party commissioning provider or	an experienced member of the design team or owner in-house st successful commissioning project. Team members may include th		presentative, building staff, design professionals, contractors	s or manufacturer's representatives, and testing specialists.
84			develop and implement the commissioning tasks and documentation identified in sections			Independent Third-Party Comm	sioning Professional - A commissioning consultant cont		r affiliated with any other member of the design and construction			, Zanama Wagana an
86 87			5.410.2.1 through 5.410.2.7. Trained personnel			Owner Representative – An indiv	dual or entity assigned by the owner to act and sign on t	he owner's behalf.	vices would include but are not limited to heat transfer, water pur	rifying, air cleaning, air vacuum and air compressing		
88 89						Sequence of Operation – A writte	description of the intended performance and operation	n of each control element and feature of the equipment		,, on eleaning, an vacuum and an compressing	,	
65			by Saum K. Nour			Selecting Hameu Personnel for (	ommissioning)					

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	Codo	Description		TCsg		Intent	Existing Law or Population	Compliance Method: Design Team	Compliance Method: Contractor	Enforcement- Plan Intake	Enforcement- OnSite Enforcement
90	Code	Description essential that there is a single person designated		2 y nr	y Notes  For information about enforce	Intent ment and compliance of each commissioning element see se	Existing Law or Regulation:	Compliance Method: Design Team	Compliance Method: Contractor	Enforcement- Plan Intake	Emorcement- Onsite Emorcement
91		essential transfer of the second seco									
92		CALGreen Section: 5.410.2.2 Basis of	+		5.410.2.1 Owner's or Owner	The Owner's Project Requirements (OPR)	1	Compliance is demonstrated by the owner or owner's	1		
		<b>Design (BOD).</b> A written explanation of how the design of the building systems meets the			representative's Project Requirements (OPR). The	documents the functional requirements of a project and expectations of the building use		representative developing and/or approving the Owner's Project Requirements (OPR) document and can be			
		OPR shall be completed at the design phase			expectations and requirement	its of and operation as it relates to systems being		defined as follows: 1. Environmental and Sustainability			
		of the building project, and updated as necessary during the design and			the building appropriate to its shall be documented before	s phase commissioned. The document describes the the physical and functional building characteristics		Goals – Establish environmental project goals and objectives exceeding the code for the project's			
		construction phases. The Basis of Design document shall cover the following systems:			design phase of the project the This documentation shall income			sustainability which may include: a) CALGreen voluntary measures or Tiers sought, or other specific green building			
		Heating, ventilation, Air Conditioning			the following: 1. Environmen	tal and is most effective when developed during pre-		rating system or program credits and/or level of		At their discretion, the building official confirms	
		(HVAC) Systems and Controls 2. Indoor Lighting System and Controls 3. Water			Sustainability Goals 2. Energe Efficiency Goals 3. Indoor	design and used to develop the Basis of Design (BOD) during the design process. The		certification sought b) Specific environmental or sustainability goals such as water efficiency, water reuse,		demonstrated compliance at Plan Intake by: a) Receipt of	
		Heating System 4. Renewable Energy			Environmental Quality	level of detail and complexity of the OPR will	No existing law or regulation. Review local	CO2 monitoring, xeriscaping, etc. 2. Energy Efficiency		a copy of the OPR document, or b) Receipt of a form signed by the owner or owner representative attesting that	
93 <b>BMO</b>		Systems 5. Landscape Irrigation Systems 6. Water Reuse Systems			Requirements 4. Project pro- including facility functions an		ordinances for any applicable commissioning OPR requirement.	Goals – Establish goals and targets affecting energy efficiency which may include: a) Overall energy efficiency		the OPR has been completed and approved by the owner.  See (Part 4) for templates and forms.	
33 DIVIO	0.410.2.2	Trace rease systems	11		minimum gradinity randidina an	e e e e e e e e e e e e e e e e e e e	or resourcements	Compliance is achieved by including commissioning requirements in the project specifications. The		coo (r art 1) for templated and forme.	
								commissioning specifications should include the following:			
								Primary (and optionally all) commissioning requirements are included in the general specification division (typically)			
								Division 1) and clear cross references of all			
							Title 24 Part 6 requires that specific functional	commissioning requirements to and from the general division are included to ensure all subcontractors are held		At their discretion, the building official confirms	
						Intent: Include commissioning measures or	test procedure forms be included in the	to them 2. A list of the systems and assemblies covered		demonstrated compliance at Plan Intake by: a) Receipt of a copy of the commissioning specifications, or b) Receipt of	
						requirements in the construction documents (plans and specifications). Commissioning	construction documents. These test forms create a subset of the broader CalGreen	by the commissioning requirements. 3. Roles and responsibilities of all parties including:   General		a form signed by the owner or owner representative or designer of record attesting that the owner-approved	
						measures or requirements should be clear,	commissioning requirements described herein.	contractor and subcontractors, vendors, construction		commissioning specifications are included in the	
94 BMO						detailed and complete to clarify the commissioning process.	Review local ordinances for additional applicable requirements.	manager □ Commissioning provider lead □ Owner, facility staff □ Architect and design engineers □ Including the		construction documents. See (Part 4) for templates and forms.	
95 BMO 96 BMO											
96 BMO											
					(OPR). The expectations and requirements of the building						
					appropriate to its phase shall b	The Owner's Project Requirements (OPR)					
					documented before the design of the project begins. This	phase documents the functional requirements of a project and expectations of the building use and operation					
					documentation shall include th						
					following: 1. Environmental and	d document describes the physical and functional fficiency building characteristics desired by the owner and					
					Goals 3. Indoor Environmental	Quality establishes performance and acceptance criteria.				At their discretion, the building official confirms	
					Requirements 4. Project progra	m, The OPR is most effective when developed during hours of pre-design and used to develop the Basis of Design				demonstrated compliance at Plan Intake by: a) Receipt of a copy of the OPR document, or b) Receipt of a form	
					operation, and need for after h	ours (BOD) during the design process. The level of detail		Compliance is demonstrated by the owner or owner's		signed by the owner or owner representative attesting that	
98 <b>BMO</b>	5.410.2.1				operation 5. Equipment and Sy Expectations 6. Building Occup-	stems and complexity of the OPR will vary according to building use, type and systems.	ordinances for any applicable commissioning OPR requirement.	representative developing and/or approving the Owner's Project Requirements (OPR) document and can be defined as follows:	t	the OPR has been completed and approved by the owner. See (Part 4) for forms and templates.	
						2010-18 200, 1/10 2010-19		Environmental and Sustainability Goals – Establish		Control of the contro	
								environmental project goals and objectives exceeding the code for the project's sustainability which may include: a) CALGreen			
								voluntary measures or Tiers sought, or other specific green			
99								building rating system or program credits and/or level of certification sought b) Specific environmental or sustainability			
								2. Energy Efficiency Goals – Establish goals and targets affecting			
								energy efficiency which may include: a) Overall energy efficiency less than the California Energy Code performance approach			
								energy budget by%) b) Lighting system efficiency (less than			
								the California Energy Code performance approach energy budget by%) c) HVAC equipment efficiency & characteristics			
100								d) Any other measures affecting energy efficiency desired by			
100								owner Building orientation and siting Daylighting Facade, 3. Indoor Environmental Quality Requirements - For each			
								program space describe indoor environmental requirements including intended use and anticipated schedule a) Lighting b)			
								Temperature and humidity c) Acoustics d) Air quality, ventilation			
101								and filtration e) Desired adjustability of system controls f) Accommodations for after-hours use g) Other owner			
								4. Project Program, Including facility functions and hours of			
								operation, and need for after hours operation – Describe primary purpose, program and use of proposed project a)			
								Building size, number of stories, construction type, occupancy			
								type and number b) Building program areas including intended use and anticipated occupancy schedules c) Future expandability	d d		
102								and flexibility of spaces d) Quality and/or durability of materials			
								<ol> <li>Equipment and Systems Expectations – Describe the following for each system commissioned: a) Level of quality,</li> </ol>			
		Owner's or Owner representative's Project						reliability, equipment type, automation, flexibility, maintenance			
		Requirements: Owner's Project Requirements (OPR). Documented before						and complexity desired b) Specific efficiency targets, desired technologies, or preferred manufacturers for building systems,			
103		the design phase of the project begins the						acoustics and vibration c) Degree of system integration,			
		OPR shall include items listed in Section 5.410.4.be completed at the design phase of						Building Occupant and O&M Personnel Expectations –     Describe the following: a) How building will be operated and by			
		the building project and updated periodically						whom b) Level of training and orientation required to			
104		to cover the systems listed in Section 5.410.2.2.						understand, operate and use the building systems for building operation and maintenance staff, as well as occupants c)			
104											

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1	Code	Description	M T1 2			Intent	Existing Law or Regulation:	Compliance Method: Design Team	Compliance Method: Contractor	Enforcement- Plan Intake	Enforcement- OnSite Enforcement
106	мо  5.410.2.2							and should include the following where applicable: 1. Heating, Ventilation, Air Conditioning (HVAC) Systems and Controls a) Provide narrative description of system – system type, location, control type, efficiency features, outdoor air ventilation strategy, indoor air quality features, environmental benefits, other special features. b) Describe reasons for system selection – why chosen system is better than alternatives, issues such as comfort, performance, efficiency, reliability, flexibility, simplicity, cost, owner preference, site constraints, climate, maintenance, acoustics c) Provide design criteria including	Compliance requires the completion of the BOD	At their discretion, the building official confirms demonstrated compliance at <i>Plan Intake</i> by: a) Receipt of a copy of the BOD document, or b) Receipt of a form signed by the architect, engineer or designer of record, attesting that the BOD has been completed and meets the requirements of the OPR. See (Part 4) for templates and forms.	
107									1. Heating, Ventilation, Air Conditioning (HVAC) Systems and Controls a) Provide narrative description of system – system type, location, control type, efficiency features, outdoor air ventilation strategy, indoor air quality features, environmental benefits, other special features. b) Describe reasons for system selection – why chosen system is better than alternatives, issues such as comfort, performance, efficiency, reliability, flexibility, simplicity, cost, owner preference, site constraints, climate, maintenance, acoustics of Provide design criteria including the following: Load calculation method/software Summer outdoor design conditions( _*F drybulb and _*F wetbulb) Winter outdoor design conditions ( _*F drybulb and _*F wetbulb) Indoor design conditions ( _*F drybulb cooling, _*SRH cooling; _*F drybulb heating, _*MRH heating) Applicable codes, guidelines, regulations and other references used Load calculation assumptions of Sequence of Operations – operating schedules, setpoints, may refer to plans or specifications if sequence indicated within permit documents e) D		
108									2. Indoor Lighting System and Controls a) Provide narrative description of system – type of fixtures, lamps, ballasts, controls b) Describe reason for system selection – why chosen system better than alternatives, issues such as visual comfort, performance, efficiency, reliability, cost, flexibility, owner preference, color rendering, integration with daylighting, ease of control c) Provide design criteria for each type of space including the following: Applicable codes, guidelines, regulations and other references used Illumination design targets (footcandles) and lighting calculation assumptions d) Provide lighting power design targets for each type of space. Title 24 lighting power allowance and lighting power design target (watts/ft²) e) Describe how system meets the OPR		

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1	Code	Description	M 11	2 y	nr y	Notes Intent	Existing Law or Regulation:	Compliance Method: Design Team	Compliance Method: Contractor	Enforcement- Plan Intake	Enforcement- OnSite Enforcement
109									3. Water Heating System a) Provide narrative description of system – system type, control type, location, efficiency features, environmental benefits, other special features b) Describe reason for system selection – why chosen system is better than alternatives, issues such as performance, efficiency, reliability, space constraints, cost, utility company incentives, owner preference, ease of maintenance c) Water heating load calculations d) Describe how system meets the OPR		
110									4. Renewable Energy Systems a) Provide narrative description of system – type, performance, control type, energy savings, payback period b) Describe reason for system selection — why chosen system is better than alternatives, issues such as performance, efficiency, reliability, flexibility, simplicity, expandability, cost, payback period, utility company incentives, owner preference, c) Sequence of Operation – operating schedules, setpoints, storage capacity d) Describe how system meets the OPR		
111									5. Landscape Irrigation Systems a) Provide narrative description of system – type, performance, water usage b) Describe reason for system selection – why chosen system is better than alternatives, issues such as performance, efficiency, reliability, flexibility, expandability, cost, owner preference, simplicity c) Sequence of Operation – operating schedules, setpoints d) Describe how system meets the OPR		
112		Basis of Design (BOD). A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project, and updated as necessary during the design and construction phases. The Basis of Design document shall cover the following systems: 1. Heating, Ventilation, Air Conditioning (HVAC) Systems and Controls 2. Indoor Lighting System and Controls 3. Water Heating System 4. Renewable Energy Systems 5. Landscape Irrigation Systems 6. Water Reuse Systems							6. Water Reuse Systems a) Provide narrative description of system – type, performance, capacity, reuse purpose b) Describe reason for system selection – why chosen system is better than alternatives, issues such as performance, efficiency, reliability, flexibility, expandability, cost, owner preference, simplicity c) Sequence of Operation – operating schedules, setpoints d) Describe how system meets the OPR. See (Part 4) for forms and templates.		

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1		Code	Description	M T1	g s n C	3 r In d st. P De a sg rt nr y	Notes Intent	Existing Law or Regulation:	Compliance Method: Design Team	Compliance Method: Contractor	Enforcement- Plan Intake	Enforcement- OnSite Enforcement
113 B	MO 5.41	10.2					Commissioning. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes Commissioning requirements shall include: 1. Owner's Project Requirements 2. Basis of Design 3. Commissioning measures shown in the construction documents 4. Commissioning plan 5. Functional Performance Testing 6. Documentation & Training 7. Commissioning Report. This section provides details for element 3: Commissioning measures or requirements in the construction documents (plans and specifications). Commissioning measures or requirements in the construction documents (plans and complete to clarify the commissioning process. Existing Law or Regulation: Title 24 Part 6 requires that specific functional test procedure forms be included in the construction documents. These test forms create a subset of the broader CalGreen commissioning requirements described herein. Review local ordinances for additional applicable requirements.			Compliance is achieved by including commissioning requirements in the project	At their discretion, the building official confirms demonstrated compliance at Plan Intake by: a) Receipt of a copy of the commissioning specifications, or b) Receipt of a form signed by the owner or owner representative or designer of record attesting that the owner-approved commissioning specifications are included in the construction documents. See (Part 4) for forms and templates.	
114			Commissioning . A commissioning plan describing how the project will be commissioned shall be started during the design phase of the building project and shall include items listed in Section 5.410.2.3. Functional performance testing shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. Commissioning measures shown in the construction documents							1. Primary (and optionally all) commissioning requirements are included in the general specification division (typically Division 1) and clear cross references of all commissioning requirements to and from the general division are included to ensure all subcontractors are held to them 2. A list of the systems and assemblies covered by the commissioning requirements. 3. Roles and responsibilities of all parties including: General contractor and subcontractors, vendors, construction manager Commissioning provider lead Owner, facility staff Architect and design engineers Including the non-contractor parties in the construction specifications is for information only to provide the contractor with context for their work Include who writes checklists and tests, who reviews and approves test forms, who directs tests, who executes tests, who documents test results and who approves completed tests. These roles may vary by system or assembly. 4. Meeting requirements 5. Commissioning schedule management procedures 6. Issue and non-compliance management procedures 7. Requ		
115 8	мо 5.41	i 1	Commissioning plan. Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned and shall be started during the design phase of the building project. The Commissioning Plan shall include the following: 1. General project information 2. Commissioning goals 3. Systems to be commissioned. Plans to test systems and components shall include: a. An explanation of the original design intent b. Equipment and systems to be tested, including the extent of tests c. Functions to be tested d. Conditions under which the test shall be performed e. Measurable criteria for acceptable performance				The Commissioning Plan (Cx Plan) establishes the commissioning process guideline for the project an commissioning team's level of effort by identifying the required Cx activities to ensure that the Owner' Project Requirements (OPR) and the Basis of Design (BOD) are met. The Cx Plan also includes a commissioning schedule from design to occupancy.	No previous existing State of California laws or regulations. Review local county, city or jurisdiction ordinances for any applicable commissioning	Compliance is demonstrated by preparation of a project specific Cx Plan that includes the elements listed in the code section above. The following gives guidance for developing the components of the Commissioning Plan:  1. General project information -Provide project identifying information including but not limited to the following: -Project Name, Owner, Location, -Building type, Building area, -Project Schedule -Contact information of individual/company providing the commissioning services 2. Commissioning Goals – Document the commissioning goals, including, but not limited to:-Meeting CALGreen code requirements for commissioning -Meeting OPR and BOD requirements -Carrying out requirements for commissioning activities as specified in plans and specifications 3. Systems to be commissioned – See BOD a. An explanation of the original design intent - Document the		At their discretion, the building official confirms demonstrated compliance at Plan Intake by: a) Receipt of a copy of the Commissioning Plan, or b) Receipt of a form signed by the owner or owner representative attesting that the Cx Plan has been completed. See (Part 4) for forms and templates.	
116 117 B	MO 5.41	 	Functional performance testing. Functional performance tests shall demonstrate the correct installation and operation of each component, system, and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.				according to the Owner's Project Requirements, Basis of Design, and plans and specifications. The following systems to be functionally tested are	functional testing of some systems and equipment required to be commissioned by CALGreen. Refer to Title 24 and Nonresidential Compliance Manual For California's 2008 Energy Efficiency Standards. http://www.energy.ca.gov/title24/2008standards/nonresidential_manual.html Note: CALGreen Functional Performance Tests are not intended to replace the Title 24 Section 6 Acceptance Tests. Instead, the T24 acceptance tests, which focus	performance objectives and design intent for each system listed to be commissioned in a written narrative -Refer to the OPR and  Compliance is demonstrated by developing and implementing test procedures for each piece of commissioned equipment and interfaces between equipment and systems according to the building-specific Commissioning Plan. Tests should include verification of proper operation of all equipment features, each part of the sequence of operation, overrides, lockouts, safeties, alarms, occupied and unoccupied modes, loss of normal power, exercising a shutdown, startup, low load through full load (as much as is possible) and back, staging and standby functions, scheduling, energy efficiency strategies and loop tuning. Elements of acceptable test procedures include:		At their discretion, the building official confirms demonstrated compliance during Onsite Enforcement by: a) Receipt of a copy of completed and signed Functional Performance Tests and corrected deficiencies, or b) Receipt of a form signed by the owner, owner representative or commissioning coordinator attesting that the Functional Performance Tests have been completed and any deficiencies corrected. See (Part 4) for forms and templates.	

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1	Code	Description	M T1	2 y	nr y	Notes	Intent	Existing Law or Regulation:	Compliance Method: Design Team	Compliance Method: Contractor	Enforcement- Plan Intake	Enforcement- OnSite Enforcement
118		·							1. Date and Party — Identification of the date of the test and the party conducting the test. 2. Signature Block — Signature of the designated commissioning lead and the equipment installing contractor attesting that the recorded test results are accurate.  3. Prerequisites — Any conditions or related equipment checkout or testing that needs to be completed before conducting this test. 4. Precautions — Identification of the risks involved to the test team members and the equipment and how to mitigate them. 5. Instrumentation — Listing of the instrumentation and tools necessary to complete the test. 6. Reference — In each procedure item, identify the source for what is being confirmed (e.g., sequence of operation ID, operating feature, specification requirement, etc.). 7. Test Instructions — Step-by-step			
110		Documentation and training. A Systems Manual		##					requirement, etc.). 7. Test instructions Step by Step			
119 BM	5.410.2.5	and Systems Operations Training are required, including Occupational Safety and Health Act (OSHA) requirements in California Code of Regulations (CCR), Title 8, Section 5142, and			See sections 5 5.410.2.5.2 b	5.410.2.5.1 and below.						
120 BM	5.410.2.5.1	Systems manual. Documentation of the operational aspects of the building shall be completed within the Systems Manual and delivered to the building owner or representative and facilities operator. The Systems Manual shall include the following: 1. Site information, including facility description, history and current requirements. 2. Site contact information 3. Basic operations & maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log 4. Major systems 5. Site equipment inventory and maintenance notes 6. A copy of all special inspection verifications required by the enforcing agency or this code 7. Other resources and documentation.					The Systems Manual documents information focusing on the operation of the building systems. This document provides information needed to understand, operate, and maintain the equipment and systems and informs those not involved in the design and construction of the building systems. This document is in addition to the record construction drawings, documents, and the Operation & Maintenance (O&M) Manuals supplied by the contractor. The Systems Manual is assembled during the construction phase and available during the contractors' training of the facility staff.	No existing law or regulation. Review local ordinances for any applicable Systems manual requirement.	Compliance is demonstrated by providing the Systems Manual. The information in the Systems Manual includes the following information:  1. Site information, including facility description, history and current requirements a) Site Information i. Location of property Address ii. Site acreage iii. Local utility information -Water service provider -Natural/LPG gas service provider -Electrical service provider -Telecommunications service provider -Other service provider in Facility Description i. Use/Function ii. Square footage iii. Occupancy Type iv. Construction Type v. Basis of design vi. Location of major systems & equipment c) Project History i. Project requirements -Owner's Project Requirements (OPR) -Basis of Design (BOD) ii. Project undocumented events iii. Record Drawings & Documents iv. Final control drawings and schematics v. Final control sequences vi. Construction documents - Location or delivery information -Mechanical &		At their discretion, the building official confirms demonstrated compliance during Onsite Enforcement by: a. Receipt of a copy of the Systems Manual, or b. Receipt of a form signed by the owner or owner representative attesting that the System's Manual has been completed. See (Part 4) fort forms and templates.	
122 BM	5.410.2.5.2	Systems operations training. The training of the appropriate maintenance staff for each equipment type and/or system shall be documented in the commissioning report and shall include the following: 1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces) 2. Review and demonstration of servicing/preventive maintenance 3. Review of the information in the Systems Manual 4. Review of the record drawings on the system/equipment					The systems operation training verifies that a training program is developed to provide training to the appropriate maintenance staff for each equipment type and/or system and that this training program is documented in the commissioning report. The systems operations training program is specified in the project specifications for the major systems listed. The System Manual, Operation and Maintenance (O&M) documentation, and record drawings are prepared and available to the maintenance staff prior to implementation of any training or the development of a written training program. The training program is to be administered when the appropriate maintenance staff is made available to receive training.	No existing law or regulation. Review local		The written training program includes: (a) learning goals and objectives for each session, (b) training agenda, topics, and length of instruction for each session, (c) instruction information and qualifications, (d) location of training sessions (onsite, off-site, manufacturer's or vendor's facility), (e) attendance forms, (f) training materials, and (g) description on how the training	At their discretion, the building official confirms demonstrated compliance during Onsite Enforcement by:  1. In the event appropriate maintenance staff is made available to receive training for each equipment type and/or system installed in the building.  a. Receipt of a copy of the written training program and completed attendance forms, or b. Receipt of a form signed by the owner or owner representative attesting that the training program and delivery of training has been completed 2. In the event appropriate maintenance staff are unavailable to receive training for each equipment type and/or system installed in the building. a. Receipt of a copy of the training program provided to the owner or owner's representative, or b. Receipt of a form signed by the owner or owner representative attesting that the written training program has been provided. See (Part 4) for forms and templates.	

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1	Code	Description	П М Т1 2	n f. A li g si n D Γ c s	t. P e a g rt	Intent	Existing Law or Regulation:	Compliance Method: Design Team	Compliance Method: Contractor	Enforcement- Plan Intake	Enforcement- OnSite Enforcement
									1. Systems/equipment overview a) Review OPR and BOD related to the major systems and equipment b) Describe system type and configuration c) Explain operation all major systems and equipment and how it interfaces with other systems and equipment and how it interfaces with other systems and equipment d) Describe operation of critical devices, controls and accessories e) Review location of the major systems and equipment f) Describe operation of control system for each system, location of critical control elements, and procedures to properly operate control system g) Review recommendations for implementation to reduce energy and water use 2. Review and demonstration of servicing/preventive maintenance a) Explain location or delivery contact of the Operation & Maintenance manuals b) Review of all manufacturer's recommended maintenance activities to maintain warranty c) Review and demonstrate frequent maintenance activities (air filter replacement, lubrication, fan belt inspection and/or replacement, condenser water treatment, etc.), and suggested schedule. d) Review and demonstrate typical servicing		
123									procedures and techniques (electrical current, pre-		
124 BN	o 5.410.2.6	Commissioning report. A complete report of commissioning process activities undertaken through the design, construction and reporting recommendations for post-construction phases of the building project shall be completed and									
125 BN	0 5.410.4 5.410.4.1	Testing and adjusting. Testing and adjusting of systems shall be required for buildings less than 10,000 square feet.				For construction projects less than 10,000 square feet testing and adjusting the building systems can ensure maximum efficiency of the equipment operation as well improve the indoor air quality for occupants. Additionally, testing and adjusting building system can prolong the life of the systems and maximize the equipment intended design parameters.		Specify the systems in the project to be tested and adjusted; the testing team members and their qualifications, and the procedures, including those recommended by the manufacturer as well as the report forms to be used in testing and adjusting.	to encourage proper maintenance and optimum performance of the systems after Certificate of	Confirm that the testing and adjusting requirements are specified for the applicable building systems.	The inspector will collect copies of the testing, adjusting and balancing reports after all functional testing has been completed.
126	5.410.4.1	Systems. Develop a written plan of procedures		+							
127	5.410.4.2	for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project: 1. HVAC systems and controls 2. Indoor and outdoor lighting and controls 3. Water heating systems 4. Procedures. Perform testing and adjusting									
		procedures in accordance with industry best									
128	5.410.4.3	practices and applicable standards on each HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for									
		normal use, the system shall be balanced in accordance with the procedures defined by the									
129	5.410.3.1	Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing									
		Reporting. After completion of testing, adjusting and balancing, provide a final report of testing									
130	5.410.4.4	signed by the individual responsible for									
131	5.410.4.5	Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M instructions shall be									

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1	Co	ode	Description	M T1	2 3	y nr	y Notes	Intent	Existing Law or Regulation:	Compliance Method: Design Team	Compliance Method: Contractor	Enforcement- Plan Intake	Enforcement- OnSite Enforcement
132	5.410.4		Inspections and reports. Include a copy of all inspection verifications and reports required by										
133													
134	Q 5.410.4	4.5.1	Environmental Quality										
135	Q												
								- Although limited in non-residential applications					
			Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace or a					code provision is intended to prevent the use of indoor air for combustion and to prevent	Currently the California Energy Code, CCR, Title 24,	Specify and install a direct-vent gas fireplace 2. Specify and		The reviewer and/or plan checker should review the plans	
			sealed woodstove and refer to residential requirements in the California Energy Code,					the sealed fireplace to maintain indoor air quali		install a pellet or wood stove which meets the US EPA Phase II emission standards. 3. Comply with local or regional ordinance.		and specifications to confirm that the fireplaces and/or woodstoves meet the direct-vent sealed-combustion	The inspector should review the permit set of plans and product data sheets to verify that the fireplaces and/or woodstoves as specified on the approved plans and specifications are
136	Q 5.503.1		Title 24, Part 6, Subchapter 7, Section 150.				Subchapter 7, Section 150.	and increased energy efficiency.	regional ordinance in place.	Suggestion: Contractor: Retain product data sheets f		and/or US EPA Phase II emission limits.	installed, or are stored on site with the ability to be verified.
137	Q 5.503.1		pellet stoves shall comply with U.S. EPA Phase II emission limits.										

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1		Code	Description	M T1			Intent	Existing Law or Regulation:	Compliance Method: Design Team	Compliance Method: Contractor	Enforcement- Plan Intake	Enforcement- OnSite Enforcement
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138 PC	1		Covering of duct openings and protection of	++					5			
139 <b>P</b> (	լ 5.504	14.3	mechanical equipment during construction. At the time of rough installation, or during storage on the construction site and until final startup of the heating and cooling equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust or debris which may collect in the system.				air quality at building occupancy by prevent	Section 604.4 of the California Mechanical Code, CCR Title 24, Part 4, addresses Protection of Ducts to control "damage". However, the CALGreen regulation is designed also to reduce indoor environmental pollution in an attempt to comply with the spirit of AB 1807 (Stats. 1983, c. 1047), the public policy that emissions of toxic air contaminants air ducts the public health.	Either when stored or moved into rough frame, HVAC		The reviewer and/or plan checker should review the construction documents to confirm that protection measures are required of the contractor.	During site visits that occur after equipment is delivered and prior to final HVAC startup, the inspector will verify that protection is in place.
140 PC	g 5.504	14.4	Adhesives, sealants, caulks. Adhesives and sealants used on the project shall meet the requirements of the following standards.			CALGreen Section: 5.5 material pollutant contr materials shall comply wi Sections 5.504.4.1 through	ol. Finish the volatile organic compounds (VOC) of finish commonly installed on a project, which will improve air quality for the building occupar	Air Resources Board cited in each section.  materials Regulations for aerosol adhesives and paints and for composite wood products are found in California	flooring) shall be specified to meet VOC limit criteria as tested	Retain product data sheets for onsite verification by the enforcing agency and for the operation and		The inspector should review the permit set of plans and product data sheets maintained by the contractor to verify finishes specified on the approved plans and specifications are installed, or at least stored on site with the ability to be verified. The inspector may review data on material containers or specifications provided with products or accept self-certification form.
144.00	5.50	444	Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable or SCAQMD Rule 1168 VOC limits, as shown in Tables 6 504.4 and 6 504.4			and caulks. Adhesives, se and caulks used on the p shall meet the requireme following standards: 1. A dhesive bonding primer adhesive bonding primer adhesive primers, sealan primers and caulks shall with local or regional air p control or air quality man district rules where applic SCAQMD Rule 1168 VO shown in Tables 5.504.4. 5.504.4.2. Such products comply with the Rule 116 prohibition on the use of toxic compounds (chlorole ethylene dichloride, methylene d	pealants, roject to tast of the thesives, s.					
141 PC	5.504	4.4.1	shown in Tables 5.504.4.1 and 5.504.4.2.  2. Aerosol adhesives and smaller unit sizes of adhesives and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements,			chloride, perchloroethyle	le, and					
172 170			Paints and coatings. Architectural paints and									
143 PC	. 1		coatings shall comply with Table 5.504.4.3 unless more stringent local limits apply.									
144 P(		4.4.3	Aerosol paints and coatings. Aerosol paints and coatings shall meet the Product-Weighted MIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances (CCR, Title 17, Section 94520 et seq).			5.504.4.3 Paints and co Architectural paints and of shall comply with VOC lir Table 1 of the ARB Archi Coatings Suggested Cor Measure, as shown in Ta 5.504.4.3, unless more s local limits apply. The VC limit for coatings that do in the definitions for the spe coatings categories listed 5.504.4.3, shall be deter classifying the coating as 3.504.4.3.1 Aerosol Pain	oatings iits in ectural rol ble ringent C content iot meet cialty iin Table iined by					
145 PC			Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency.  Carpet systems. All carpet installed in the building interior shall meet the testing and product requirements of one of the			Coatings. Aerosol paints coatings shall meet the F Limits for ROC in Sectior 94522(a)(3) and other requirements, including p on use of certain toxic co and ozone depletting sub Sections 94522(c)(2) and California Code of Regul. Title 17, commencing wit 5.504.4.3.2 Verification. Verification of compliance section shall be provided request of the enforcing Documentation may incl.	and WMIR  rohibitions mpounds stances, in (d)(2) of titions, n Section  with this at the gency. de, but is					
146 <b>P</b> (	5.504	4.4.3.2	standards listed in Section 5.504.4.4.			not limited to, the following	g: 1.					

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1	Code	Description	M T1		nr y	Notes	Intent	Existing Law or Regulation:	Compliance Method: Design Team	Compliance Method: Contractor	Enforcement- Plan Intake	Enforcement- OnSite Enforcement
		Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute				5.504.4.4 Carpet systems. All carpet installed in the building interior shall meet the testing and product requirements of one of the following: 1. Carpet and Rug Institute's Green Label Plus Program. 2. California Department						
147 PQ	5.504.4.4	Green Label program.		++		of Public Health Standard Practice carpet cushion installed in the						
		Carpet adhesive. All carpet adhesive shall				building interior shall meet the						
148 PQ	5.504.4.4.1	meet the requirements of Table 804.4.1.  Composite wood products. Hardwood				requirements of the Carpet and						
14000	E E04 4 4 0	plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the building shall				5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.						
149 PQ	5.504.4.4.2	Early compliance with formaldehyde limits.				5.504.4.5 Composite wood						
		Where complying composite wood product is readily available for nonresidential occupancies, meet Phase 2 requirements before the compliance dates indicated in				products. Hardwood plywood, particleboard, and medium density fiberboard composite wood products used on the interior or						
150 <b>PQ</b>	5.504.4.5	Table 5.504.4.5 (Tier I) or use composite wood products made with either CARB-approved no-added formaldehyde (NAF) resins or CARB-approved ultra-low emitting				exterior of the building shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure for Composite						
		Resilient flooring systems. Comply with the VOC-emission limits defined in the 2009 CHPS criteria and listed on its Low-emitting Materials List (or Product Registry) or certified under the FloorScore program of the				5.504.4.5.2 Documentation.  Verification of compliance with this section shall be provided as requested by the enforcing agency.  Documentation shall include at						
151 PQ	5.504.4.5.2	Resilient Floor Covering Institute.				least one of the following: 1.						
152 PQ	5.504.4.6	Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant										
		CALGreen Section: 504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air prior to occupancy that provides at least a Minimum Efficiency Reporting Value (MERV)				CALGreen Section: 504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air prior to occupancy that provides at least a Minimum	The intent of this regulation is to filter particulate matter from the air by the use of at least MERV 8-rated filters for improved air	There is <b>NO</b> current law or regulation for this	Specify and install prior to occupancy at least MERV 8		an Intake: The reviewer and/or plan checker should view the plans and specifications to confirm that the	On-Site Enforcement: The inspector should review the permit set of plans and product data sheets maintained by the contractor to verify that HVAC filtration specified on the approved plans and specifications are installed, or are stored on site with the ability to be
153 <b>PQ</b>	5.504.5.3	of 8.				Efficiency Reporting Value (MERV) 5.504.4.6.1 Verification of	quality.	code provision.	filters for the return air grilles. Specify finish materials that meet the limits of VOC shown	filt	ers are specified to meet MERV 8.	verified. The inspector may check a sample of installed filters to verify the MERV rating.
154 PQ		Environmental tobacco smoke (ETS)				compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits. Notes: 1. CHPS Low-emitting materials List may be found at www.chpregistry.com/live or	The purpose of these measures is to reduce the volatile organic compounds (VOC) of finish materials commonly installed on a project, which will help improve air quality for the building occupants.	The low-VOC provisions are based on the recommendations, guidelines and regulations of the Air Resources Board cited in each section. Regulations for aerosol adhesives and paints and for composite wood products are found in California Code of Regulations, Title 17 as noted above.	in the tables for adhesives and sealants, paints and coatings, and composite wood products (particle board and hardboard casework). Flooring products (carpet systems and resilient flooring) shall be specified to meet VOC limit criteria as tested by the listed organizations. Substitutes may be approved by the local enforcing authority if it deems equivalency. Suggestion:  Contractor: Retain product data sheets for onsite verification by the enforcing agency and for the operation and maintenance manual. Sample compliance forms can be found in Part 4 of this Guide.		an Intake: The reviewer and/or plan checker should view the plans and specifications to confirm that the ishes are specified to meet VOC emission limits.	On-Site Enforcement: The inspector should review the permit set of plans and product data sheets maintained by the contractor to verify finishes specified on the approved plans and specifications are installed, or at least stored on site with the ability to be verified. The inspector may review data on material containers or specifications provided with products or accept self certification form.
155 PQ	5.504.7 5.504.7	control. Prohibit smoke (E1S) control. Prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows where outdoor areas are provided for smoking and in buildings; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University or campus of the University of California, whichever are more stringent.  Indoor Moisture and Radon Control Indoor moisture control. Buildings shall meet				Environmental tobacco smoke (ETS) control. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and in buildings; or as enforced by ordinances, regulations, or policies of any city, county, city and county, California Community college,	By prohibiting smoking in buildings, and in those instances where outdoor areas are and dedicated for the use of smokers, this provision is intended to improve indoor air quality and to protect non-smokers from second hand smoke.	a certain distance that smoking can occur outside a building. AB 1807 (Stats. 1983, c. 1047) is the public policy of the state that emissions of toxic air contaminants should be controlled to levels which prevent harm to the	Include in the signage specification and post signs that prohibit smoking for an outdoor smoking area within 25 feet of building entries, outdoor air intakes and operable windows where they occur. Suggestion: In order to clarify sign placement and smoking area(s), show on one or all of the following plans: Site Plan, Floor Plan, Elevations and/or Detail Sheet.	re	an Intake: The reviewer and/or plan checker should view the plans and specifications to confirm that, if an tdoor smoking area is shown, signage is specified and cated.	On-Site Enforcement: The inspector should review the permit set of plans against the outdoor smoking area and verify signage installed in the field.
157 PQ		or exceed the provisions of California Building Code, CCR, Title 24, Part 2,										

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1	Code	Description	M T1	2 !	y nr y	Notes	Intent	Existing Law or Regulation:	Compliance Method: Design Team	Compliance Method: Contractor	Enforcement- Plan Intake	Enforcement- OnSite Enforcement
158 <b>AQE</b>	5.505	Outside air delivery. For mechanically or				CALGreen Section: 5.505.1			Design Team: Include details on the construction plans			
		naturally ventilated spaces in buildings, meet				Indoor moisture control. Building		California Building Code Section 1203 for attic	addressing issues of moisture control, Contractor:			
		the minimum requirements of Section 121 of the California Energy Code, CCR, Title 24,				shall meet or exceed the provisions of California Building Code, CCR,	parts of Title 24 and this part for those provisions that are intended to reduce the	spaces and under-floor ventilation, Chapter 14 for a weather-resistant exterior wall envelope,	Understand and install moisture control according to construction documents and manufacturer's installation		Plan Intake: The reviewer and/or plan checker should review the plans and specifications to confirm that moisture	On-Site Enforcement: The inspector should review the permit set of plans and confirm
	F F0F 4	Part 6 and Chapter 4 of CCR, Title 8 or the				Title 24, Part 2, Sections 1203	probability of mold and mildew growth and	and Section 5.407.2.2 Entries and openings in	recommendations. Note: Vapor control recommendations	S	control features which meet Title 24 are specified and	that moisture control measures have been incorporated into the building. Collect a copy of
159 AQE	5.505.1	applicable local code, whichever is more  Carbon dioxide (CO2) monitoring. For			++	(Ventilation) and Chapter 14  Outside air delivery. For	improve air quality.	this code.	for different climate zones may found at the provisions of the energy code that specify		getailed.	self certification form if completed and signed by the contractor.
		buildings equipped with demand control ventilation, CO2 sensors and ventilation				mechanically or naturally ventilated spaces in buildings, meet the			requirements for naturally and mechanically ventilated			
		controls shall be specified and installed in				minimum requirements of Section	The purpose is to point building designers and contractors to the ventilation requirements in		spaces, and may comply with this provision by using energy code compliance tools currently in place. Title 8 fo	r	Plan Intake: The reviewer and/or plan checker should	On-Site Enforcement: The inspector should review the permit set of plans against the
		accordance with the requirements of the latest edition of the California Energy Code,				121 (Requirements For Ventilation of the California Energy Code,	the California Code of Regulations that are intended to improve indoor air quality for	6, Sections 121(a) through 121(e) with flow rates as required by Table121-A. There is a	Cal OSHA may have additional regulations which emphasize air quality for workers in particular		review the plans and specifications to confirm that building ventilation is calculated and specified to Title 24, Part 6,	natural ventilation features and mechanical ventilation systems that are installed on the project, requesting results of any testing of ventilation rates. Adequate pre-occupancy
160 AQE	5.506.1	CCR, Title 24, Part 6, Section 121(c).1 •				CCR, Title 24, Part 6, or the	building occupants.	possibility of a more stringent local ordinance.	environments which should be followed as required.		and if applicable, Part 8.	building ventilation shall be verified.
						CAL Consum Constitute 5 500 0						
						CALGreen Section: 5.506.2 Carbon dioxide (CO2) monitoring	g.					
						For buildings equipped with demand control ventilation, CO2				<b>Contractor:</b> The contractor should install the specified equipment and make sure that it is		
						sensors and ventilation controls				operating as designed. Again, familiarity with		
						shall be specified and installed in accordance with the requirements	When demand control ventilation is required by	The current edition of the California Energy	Design Team: The designer should specify and show	demand control ventilation will be an advantage. Suggestion: Contractor: Retain	Plan Intake: The reviewer and/or plan checker should	On-Site Enforcement: The inspector should review the permit set of plans and product
						of the current edition of the	Part 6, this provision intends to maintain CO2	Code, CCR, Title 24, Part 6, Section 121(c)	calculations and locations for CO2 sensors in the	product data sheets for onsite verification by	review the plans, specifications and calculations to confirm	data sheets to verify that complying sensors displaying readings are installed in designated
	5.506.2	Environmental Comfort				California Energy Code, CCR Title 24, Part 6, Section 121(c).	levels which are within the range that is safe for human occupation.	identifies the sensors, controls and devices required to keep CO2 emissions at safe levels.	construction documents. The team familiar with demand control ventilation will be familiar with these requirements.	the enforcing agency and for the operation and maintenance manual.	that sensors are included which meet the requirements of Part 6.	locations. He/she should obtain assurance that the readings are recorded as required by Part 6.
162 AQE	A5.507	ENVIRONMENTAL COMFORT										
										Contractor: The contractor should install the wall and ceiling assemblies as designed.		
										Suggestion: Employing the services of an		
										acoustical engineer is another option to assist with compliance. Choose an assembly		
							Where buildings are sited in the noisy areas described in this provision, the intent is to keep	There is <b>NO</b> current law or regulation for this		from the "examples of assemblies" link that meet the corresponding sound ratings class.		
		Acoustical control. Employ building assemblies					sound levels low enough to carry out the	code provision for nonresidential buildings.	Design Team: The designer should specify and detail	Note: Examples of assemblies and their	Plan Intake: The reviewer and/or plan checker should	
		and components with Sound Transmission Coefficient (STC) values determined in					activities that take place inside the building without the distraction or discomfort of	There may be local ordinances that apply in those communities that have noise exposure	wall and ceiling assemblies and show in the construction documents, showing on plans and/or sections the	various STC ratings may be found at: http://www.toolbase.org/PDF/CaseStudies/st	review the plans, specifications and calculations to confirm	On-Site Enforcement: The inspector should review the permit set of plans and product
163 <b>EQ</b>	5.507.4	accordance with ASTM E90 and ASTM E413.					unwanted noise.	such as commercial airports.	placement of sound walls and floor/ceilings.	c_icc_ratings.pdf .	of Title 24.	data sheets to verify that complying wall and ceiling assemblies are installed correctly.
		Acoustical control. Employ building assemblies and components with STC values determined in										
		accordance with ASTM E 90 and ASTM E 413.										
		5.507.4.1 Exterior noise transmission. Wall and floor-ceiling assemblies making up the building										
		envelope shall have an STC of at least 50 and										
		exterior windows shall have a minimum STC of 30 for any of the building locations listed in Items 1										
		through 3 in Section 5.507.5.1. Exterior noise transmission. Wall and roof-ceiling assemblies										
		making up the building envelope shall have an										
		STC of at least 50, and exterior windows shall have a minimum STC of 30 for any of the										
		following building locations: 1. Within 1,000 ft										
164 <b>EQ</b>	5.507.4.1	(300 m.) of right of ways of freeways. 2. Within 5 mi. (8 km) of airports serving more than 10,000										
		Interior sound. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and										
		public places shall have an STC of at least 40.										
165 <b>EQ</b>	507.4.2	Note: Example of assemblies and their various STC ratings may be found in the Catalog of STC										
	A5.508	Outdoor Air Quality										
		reductions. Installations of HVAC,				CALGreen Section: 5.508.1						
		refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and				Ozone depletion and greenhous gas reductions. Installations of	=					
167 OAQ		5.508.1.2.				HVAC, refrigeration and fire						
168 OAQ	5.508.1	CFCs. Install HVAC and refrigeration equipment that does not contain CFCs.1										
		Halons. Install fire suppression equipment				5.508.1.1 Chlorofluorocarbons (CFCs.) Install HVAC, refrigeration						
169 OAQ		that does not contain Halons.1				and fire suppression equipment						
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	Code	Des	cription		E n f. A In g st. n De T c sg 2 y nr	3 r d P a rt	Intent	Existing Law or Regulation:	Compliance Method: Design Team	Compliance Method: Contractor	Enforcement- Plan Intake	Enforcement- OnSite Enforcement
17(	OAQ 5.508.1.1 5.508.1.2	Hydrochlorofluoroca	rbons (HCFCs). Install on equipment that does			5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.	This measure eliminates the use of chlorofluorocarbons and Halons in fire suppression, HVAC and refrigeration systems in order to assist in meeting statewide requirements for the reduction of green house gas emissions to 1990 levels and to prevent ozone destruction.	Refrigerants are regulated at the federal level by the Environmental Protection Agency and those containing ozone depleting chemicals are being gradually phased out. In California, the Global Warming Solutions Act of 2006, Assembly Bill 32 (Stats 2006, c. 488), calls for the reduction of green house gas emissions to 1990 levels. Although these damaging compounds have been widely outlawed for most uses, prior to CALGreen, these issues were not addressed by	Clearly note in appropriate place(s) in the construction documents and in the equipment specifications that the required total restriction of these compounds has been followed. Note: Typically, new fire suppression, HVAC and refrigeration systems are designed to operate on a new generation of refrigerants that do not contribute to greenhouse gases; but there is an inventory of CFCs and Halons used for the recharge of existing equipment. Ensure that new equipment is specified and installed, which is usually required in a new project.	·	Plan Intake: Enforcement provided by plan check and the on-site inspection by the building official should insure the drawing and installation requirements have been met and that no HVAC, fire suppression or refrigeration systems installed use the above mentioned environmental contaminants.	