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|  | CxMM1-A  |
|  | **Commissioning Mandatory Measure**  |
| **Contact Information**  | **Site Address** |
| **Features/Measures** **Irrigation system, Renewable Energy Systems, and Water Reuse Systems** | **Foot note #1** | **Foot note #2** | **Enforcing** **Agency** |
|  |  **CALGreen Commissioning Requirements** |
|   | **5.410.2. Commissioning. [N]** For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner’s or owner representative’s project requirements. Com- missioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. Commissioning requirements shall include:1. Owner’s or owner representative’s project requirements.2. Basis of design.3. Commissioning measures shown in the construction documents.4. Commissioning plan.5. Functional performance testing.6. Documentation and training. 7. Commissioning report.**Exceptions:** 1. Dry storage warehouses of any size.2. Areas under 10,000 square feet used for offices or other conditioned accessory spaces within dry storage warehouses.3. Tenant improvements under 10,000 square feet as described in Section 303.1.1**.**4. Commissioning requirements for energy systems covered by the 2013 *California Energy Code.* |  |  | Date & Notes |
|  **GRN-20**  | **5.410.2.1 Owner’s or Owner representative’s Project Requirements (OPR). [N]** The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following:1. Environmental and sustainability goals.2. Energy efficiency goals [Refer to 2013 *California**Energy Code*, Section 120.8(b)].3. Indoor environmental quality requirements.4. Project program, including facility functions and hours of operation, and need for after-hours operation.5. Equipment and systems expectations.6. Building occupant and operation and maintenance(O&M) personnel expectations. |  |  |  |
|  | **CalGreen Commissioning Requirements**  |
|  **GRN-21** | **5.410.2.2 Basis of Design (BOD). [N]** 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. The Basis of Design document shall cover the following systems:>1. Heating, ventilation, air conditioning [HVAC) sys- terms and controls. (Refer to 2013 *California Energy Code*, Section 120.8(c)].2. Indoor lighting system and controls [Refer to 2013*California Energy Code* Section 120.8(c)].3. Water heating system [Refer to 2013 *California**Energy Code* Section 120.8(c)].4. Renewable energy systems.5. Landscape irrigation systems.6. Water reuse systems.  |  |  |  |
|  **GRN-23** | **5.410.2.3 Commissioning plan. [N]** Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. 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 testedd. Conditions under which the test shall be per- formed.e. Measurable criteria for acceptable performance. |  |  |  |
|  **GRN-26** | **5.410.2.6 Commissioning report. [N]** A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.**Note:** Guidance on implementation and enforcement of commissioning requirements, including sample compliance forms and templates, may be found in Appendix A6, Division A6.1, of this code. |  |  |  |