2012 International Green Construction Code (IgCC)

Scottsdale Green Building Program
Commercial Compliance Checklist for Plan Review

rev. 8/6/13

Use this checklist for tracking compliance requirements for the City of Scottsdale amended International Green Construction Code (IgCC). Please refer to the IgCC code document for further details and applicable requirements. Use Scottsdale's IgCC worksheets for determining compliance with Heat Island Mitigation (Sec. 408) and Material Selection (Sec. 505).

Project Name: _____ Date: _____ Plan Review # _____

Chapter 4 – Site Development and Land Use		Verification	
√	**Section 404: Landscape Irrigation**	**Plan Review**	**Inspections**
☐	**404.1.1 Water for outdoor landscape irrigation.** Outdoor landscape irrigation systems shall be designed and installed to reduce potable water use by 50 percent from a calculated mid-summer baseline in accordance with Section 404.1.2 or the system shall be supplied with alternate onsite nonpotable water complying with Chapter 7 of the IgCC. Exceptions: Potable water is permitted to be used as follows: 1) During the establishment phase of newly planted landscaping; 2) To irrigate food production; 3) To supplement nonpotable water irrigation of shade trees for heat island mitigation (Sec. 408.2.3); 4) When approved in the development review and planning process.	Commissioning Agent	Commissioning Agent
☐	**404.1.2 Irrigation system design and installation.** Where in-ground irrigation systems are provided, the systems shall comply with all of the following: 1. The design and installation of outdoor irrigation systems shall be under the supervision of an irrigation professional accredited or certified by an appropriate local or national body. 2. Landscape irrigation systems shall not direct water onto building exterior surfaces, foundations or exterior paved surfaces. Systems shall not generate runoff. 3. Where an irrigation control system is used, the system shall be one that regulates irrigation based on weather, climatological or soil moisture status data. The controller shall have integrated or separate sensors to suspend irrigation events during rainfall. 4. Irrigation zones shall be based on plant water needs with plants of similar need grouped together. Turfgrass shall not be grouped with other plantings on the same zone. 5. Micro-irrigation zones shall be equipped with pressure regulators that ensure zone pressure is not greater than 40 psi, filters, and flush end assemblies. 6. Refer to IgCC Sec. 404.1.2 for further details on sprinkler requirements.	Commissioning Agent	Commissioning Agent

√	Section 407: Transportation Impact		
☐	**407.1 Walkways and bicycle paths.** Walkways and bicycle paths shall connect streets and other paths to building entrances in accordance with Scottsdale Zoning Ordinance and Design Guidelines. Not less than one independent, paved walkway or bicycle path suitable for bicycles, strollers, pedestrians, and other forms of non-motorized locomotion connecting a street or other path to a building entrance shall be provided. Walkways and bicycle paths shall connect to existing paths or sidewalks, and shall be designed to connect to any planned future paths.	City Review (Planning)	City Inspection
☐	**407.2 Changing and shower facilities.** In addition to provisions contained in the Scottsdale Zoning Ordinance and Design Guidelines, buildings with a total building floor area greater than 10,000 sq. ft. and that are required to be provided with long-term bicycle parking and storage in accordance with Section 407.3 shall be provided with onsite changing room and shower facilities. Not less than one shower shall be provided for each 20 long-term bicycle parking spaces, or fraction thereof. Where more than one changing room and shower facility is required, separate facilities shall be provided for each sex.	City Review (Building)	City Inspection
☐	**407.3 Bicycle parking and storage.** In addition to provisions contained in the Scottsdale Zoning Ordinance and Design Guidelines, long-term and short-term bicycle parking shall be designated on the site plan as specified in Table 407.3. The required number of spaces shall be determined based on the net floor area of each primary use or occupancy of a building except where Table 407.3 specifies otherwise. Accessory occupancy areas shall be included in the calculation of primary occupancy area. **Exceptions:** 1. Long-term bicycle parking shall not be required where the total building floor area is less than 2,500 sq. ft. 2. Subject to the approval of the code official, the number of bicycle parking spaces shall be permitted to be reduced because of building site characteristics.	City Review (Building)	Commissioning Agent
☐	**407.4 Preferred vehicle parking.** **407.4.2 Low-emission, hybrid, and electric vehicle parking.** Where parking is provided for a building that has a total building floor area greater than 10,000 sq. ft. and that has an building occupant load greater than 100, at least 5 percent, but not less than two, of the parking spaces provided shall be designated as preferred parking for low emission, hybrid, and electric vehicles. Preferred parking spaces shall be those in the parking facility that are located on the shortest route of travel from the parking facility to a building entrance, but shall not take precedence over parking spaces that are required to be accessible.	City Review (Planning)	Commissioning Agent
√	**Section 408: Heat Island Mitigation**		

☐	**408.2 Site Hardscape.** Not less than 50 percent of site hardscape shall be provided with one or any combination of the following options: 1) hardscape materials with an initial solar reflectance value of not less than 0.30; 2) shading structures; 3) shading by trees; 4) pervious paving, open-grid pavers, and/or open-graded aggregate (stabilized decomposed granite).	City Review (Planning and Building)	City Inspection
☐	**408.3 Roof coverings.** Not less than 75 percent of roof surfaces of buildings and covered parking shall be provided with one or any combination of the following options: 1) roof surfaces with minimum solar reflectance/thermal emittance or SRI value per IgCC Table 408.3.1; and/or 2) installation of a vegetative roof.	City Review (Planning)	Commissioning Agent
Chapter 5 – Material Resource Conservation and Efficiency			
√	**Section 503: Construction Waste Management**	**Plan Review**	**Inspections**
☐	**503.1 Construction material and waste management plan.** Not less than 35 percent of non-hazardous construction waste shall be diverted from landfills. A construction material and waste management plan shall be developed and implemented to recycle or salvage construction materials and waste. The Construction Material and Waste Management Plan shall comply with all of the following: 1. The location for collection, separation and storage of recyclable construction waste shall be indicated. 2. Materials to be diverted from disposal by efficient usage, recycling, reuse, manufacturer's reclamation, or salvage for future use, donation or sale shall be specified. 3. The percentage of materials to be diverted shall be specified and shall be calculated by weight or volume, but not both. 4. Receipts or other documentation related to diversion shall be maintained through the course of construction. Where requested by the *code official*, evidence of diversion shall be provided. For the purposes of this section, construction materials and waste shall include all materials delivered to the site and intended for installation prior to the issuance of the certificate of occupancy, including related packaging. Construction and waste materials shall not include land-clearing debris, excavated soils and fill and base materials.	City Review (CD notes and specs)	Commissioning Agent
√	**Section 504: Waste Management and Recycling**		
☐	**504.1 Recycling areas for waste generated post certificate of occupancy.** Waste recycling areas for use by building occupants shall be provided to accommodate recyclable material collection and efficient pick-up.	City Review (Building)	Commissioning Agent
☐	**504.2 Storage of lamps, batteries and electronics.** Storage space shall be provided for fluorescent lamps, high-intensity discharge (HID) lamps, batteries, electronics, and other discarded items requiring special disposal.	City Review (Building)	Commissioning Agent

√	Section 505: Material Selection		
☐	**505.2 Material selection.** Not less than 55 percent of the total building materials (not including electrical, mechanical, plumbing, security, fire protection and elevator equipment) used in the project, based on mass, volume or cost, shall comply with one or any combination of the following material properties: **505.2.1 Used materials and components.** **505.2.2 Recycled content building materials.** Recycled content building materials shall comply with one of the following: 1. Contain not less than 25 percent combined post-consumer and pre-consumer recovered material, and shall comply with Section 505.2.3. 2. Contain not less than 50 percent combined post-consumer and pre-consumer recovered material. **505.2.3. Recyclable building materials and components.** Building materials and components that can be recycled into the same material or another material with a minimum recovery rate of not less than 30 percent through recycling and reprocessing or reuse, or building materials shall be recyclable through an established, nationally available closed loop manufacturer's take-back program. **505.2.4 Bio-based materials.** Bio-based materials shall be those materials that comply with one or more of the following: 1. The bio-based content is not less than 75 percent as determined by testing in accordance with ASTM D 6866. 2. Wood and wood products used to comply with this section, other than salvaged or reused wood products, shall be labeled in accordance with the Sustainable Forest Initiative (SFI) standard, Forest Stewardship Council (FSC) standard, Programme for the Endorsement of Forest Certification (PEFC) Council Technical Document or equivalent fiber procurement system. 3. The requirements of USDA 7CFR Part 2902. **505.2.5 Indigenous materials.** Indigenous materials or components shall be composed of resources that are recovered, harvested, extracted and manufactured within a 500 mile radius of the building site. Where only a portion of a material or product is recovered, harvested, extracted and manufactured within 500 miles, only that portion shall be included. Where resources are transported by water or rail, the distance to the building site shall be determined by multiplying the distance that the resources are transported by water or rail by 0.25, and adding that number to the distance transported by means other than water or rail.	City Review (Building - compliance worksheet submittal)	Commissioning Agent
√	**Section 506: Lamps**		
☐	**506.2 Straight fluorescent lamps.** Straight, double-ended fluorescent lamps less than 6 feet in nominal length and with bi-pin bases shall contain not more than 5 milligrams of mercury per	City Review (Building -	Commissioning Agent

	lamp. **Exception:** Lamps with a rated lifetime greater than 22,000 hours at 3 hours per start operated on an ANSI reference ballast shall not exceed 8 milligrams of mercury per lamp. **506.3 Compact Fluorescent Lamps.** Single-ended pin-base and screw-base compact fluorescent lamps shall contain not more than 5 milligrams of mercury per lamp, and shall be listed and labeled in accordance with UL 1993. **Exception:** Lamps rated at 25 watts or greater shall contain not more than 6 milligrams of mercury per lamp.	lighting schedule)	
√	**Section 507: Building Envelope Moisture Control**		
☐	**507.1 Moisture control preventative measures.** Moisture preventative measures shall be inspected in accordance with Sections 902 and 903 for the categories listed in Items 1 through 7. Inspections shall be executed in a method and at a frequency as listed in Table 903.1. 1. Foundation sub-soil drainage system. 2. Foundation waterproofing 3. Foundation dampproofing. 4. Under slab water vapor protection 5. Flashings: Windows, exterior doors, skylights, wall flashing and drainage systems. 6. Exterior wall coverings. **7.** Roof coverings, roof drainage, and flashings.	City Review (Building – plans and specs)	Commissioning Agent
Chapter 6 – Energy Conservation, Efficiency and CO_2e Emission Reduction			
√	**Section 601: General**	**Plan Review**	**Inspections**
	601.3 Application. Buildings and their associated building sites shall comply with Section 601.3.1 or Section 601.3.2.	N/A	N/A
☐	**601.3.1 Performance-based compliance.** Buildings designed on a performance basis shall comply with Sections 602, 608.6, 609, 610 and 611.		
☐	**601.3.2 Prescriptive-based compliance.** Buildings designed on a prescriptive basis shall comply with the requirements of Sections 605, 606, 607, 608, 609, 610 and 611.		
√	**Section 602: Performance Pathway Requirements**		
☐	**602.1 Performance-based compliance.** Compliance for buildings and their sites to be designed on a performance basis shall be determined by predictive modeling. Predictive modeling shall use source energy kBtu/sf-y unit measure based on compliance with Section 602.1.1 and CO2*e* emissions in Section 602.2. Where a building has mixed uses, all uses shall be included in the performance-based compliance. **602.1.1 zEPI.** Performance-based designs shall demonstrate a zEPI of not more than 51 as	City Review (Perform preliminary energy analysis at DR submittal)	N/A

	determined in accordance with Equation 6-1 for energy use reduction and shall demonstrate a CO_2e emissions reduction in accordance with Section 602.2 and Equation 6-2 for CO_2e. See IgCC for details. **602.2 Annual direct and indirect CO2*e* emissions.** The CO2*e* emissions calculations for the building and building site shall be determined in accordance with Sections 602.2.1 and 602.2.2. The emissions associated with the proposed design shall be less than or equal to the CO2*e* emissions associated with the standard reference design in accordance with Equation 6-2. See IgCC for details.		
√	**Section 603: Energy Metering, Monitoring and Reporting (Mandatory)**		
☐	**603.2 Energy distribution design requirements and load type isolation in buildings.** Energy distribution systems within, on or adjacent to and serving a building shall be designed such that each primary circuit, panel, feeder, piping system or supply mechanism supplies only one energy use type as defined in Sections 603.2.1 through 603.2.5. The energy use type served by each distribution system shall be clearly designated on the energy distribution system with the use served, and adequate space shall be provided for installation of metering equipment or other data collection devices to measure their energy use. The energy distribution system shall be designed to facilitate the collection of data for each of the building energy use categories in Section 603.4 and for each of the end use categories listed in Sections 603.2.1 through 603.2.5. **603.2.1 HVAC system total energy use.** **603.2.2 Lighting system total energy use.** **603.2.3 Plug loads.** **603.2.4 Process loads.** **603.2.5 Energy used for building operations loads and other miscellaneous loads.**	City Review (MPE)	Commissioning Agent
☐	**603.3 Energy-type metering.** Buildings shall be provided with the capability to determine energy use and peak demand as provided in this section for each of the energy types specified in Sections 603.3.1 through 603.3.7. Utility energy meters or supplemental sub-meters are permitted to be used to collect whole building data, and shall be equipped with a local data port connected to a data acquisition system in accordance with Section 603.5. **603.3.1 Gaseous fuels.** **603.3.2 Liquid fuels.** **603.3.3 Solid fuels.** **603.3.4 Electric power.** **603.3.5 District heating and cooling.** **603.3.6 Combined heat and power.** **603.3.7 Renewable and waste energy.**	City Review (MPE)	Commissioning Agent
☐	**603.4 Energy load type sub-metering.** For buildings that are not less than 25,000 sq. ft. in total building floor area the energy use of the categories specified in Section 603.2 shall be metered through the use of sub-meters or other approved, equivalent methods meeting the capability requirements of Section 603.3.	City Review (MPE)	Commissioning Agent

	603.4.1 Buildings less than 25,000 square feet. For buildings that are less than 25,000 sq. ft. in total building floor area, the energy distribution system shall be designed and constructed to accommodate the future installation of sub-meters and other approved devices in accordance with Section 603.4.		
☐	**603.5 Minimum energy measurement and verification.** Meters, sub-meters, and other approved devices installed in compliance with Sections 603.3 and 603.4 shall be connected to a data acquisition and management system capable of storing not less than 36-months' worth of data collected by all meters and other approved devices.	City Review (MPE)	Commissioning Agent
√	**Section 605: Building Envelope Systems (Prescriptive)**		
☐	**605.1 Prescriptive compliance.** Where buildings are designed using the prescriptive-based compliance path, building thermal envelope systems shall comply with the provisions of Section C402 of the International Energy Conservation Code and the provisions of this section. **605.1.1 Insulation and fenestration criteria.** The building thermal envelope shall exceed the requirements of Tables C402.1.2 and C402.3 of the IECC by not less than 10 percent. For purposes of compliance with this code, each U-factor, C-factor, F-factor and SHGC in the specified tables shall be reduced by 10 percent to determine the prescriptive criteria. **605.1.1.1 Permanent shading devices for fenestration.** Vertical fenestration within 45 degrees of the nearest west, south, and east cardinal ordinate shall be shaded by permanent horizontal exterior projections with a projection factor greater than or equal to 0.25. Where different windows or glass doors have different projection factor values, each shall be evaluated separately, or an area-weighted projection factor value shall be calculated and used for all windows and glass doors. Horizontal projections shall extend laterally beyond the edge of the glazing not less than one-half of the height of the glazing, except at building corners. **Exception:** Shading devices are not required for the following: 1. Buildings located in hurricane-prone regions in accordance with IBC Section 1609.2 or on any other building with a mean roof height exceeding the height limits specified in IBC Table 1504.8 based on the exposure category and wind speed. 2. Where building fenestration is located is within 18 inches of the lot line. 3. Where equivalent shading of the fenestration is provided by buildings, structures, geological formations, or permanent exterior architectural shading devices, as determined by sun angle studies at the peak solar altitude on the spring equinox, and three hours before and after the peak solar altitude on the spring equinox. 4.Where fenestration contains dynamic glazing that has a lower labeled solar heat gain coefficient (SHGC) equal to or less than 0.12, and the ratio of the higher and lower labeled visible transmittance (VT) is greater than or equal to 5.	City Review (Building)	Commissioning Agent
√	**Section 606: Building Mechanical Systems (Prescriptive)**		

☐	**606.1 Prescriptive compliance.** Where buildings are designed using the prescriptive-based compliance path, building mechanical systems shall comply with the provisions of the IECC and the provisions of this IgCC section (see IECC and IgCC for details).	City Review (MPE)	Commissioning Agent
√	**Section 607: Building Service Water Heating Systems (Prescriptive)**		
☐	**607.1 Prescriptive compliance.** Where buildings are designed using the prescriptive-based compliance path, service water heating systems shall comply with the provisions of the IECC and the provisions of this IgCC section (see IECC and IgCC for details).	City Review (MPE)	Commissioning Agent
√	**Section 608: Building Electrical Power and Lighting Systems (Prescriptive)**		
☐	**608.1 General.** Where buildings are designed using the prescriptive-based compliance path, building electrical power and lighting systems shall comply with the IECC and the provisions of this IgCC section (see IECC and IgCC for details).	City Review (MPE)	Commissioning Agent
√	**Section 609: Specific Appliances and Equipment (Mandatory)**		
☐	**609.2 Permanent appliances and equipment.** Equipment that is permanently connected to the building energy supply systems (elevators, escalators and commercial food service equipment) shall comply with the IECC and the provisions of this IgCC section (see IECC and IgCC).	City Review (MPE)	Commissioning Agent
√	**Section 610: Building Renewable Energy Systems (Mandatory)**		
☐	**610.1 Renewable energy systems requirements.** Each building or surrounding lot or building site where there are multiple buildings on the building site shall be equipped with one or more of the following renewable energy systems. **Exception**: Where not less than 4 percent of the total annual building energy consumption from renewable generation takes the form of a 10-year commitment to a renewable energy credit (REC) ownership. **610.2** Solar photovoltaic system shall be sized to provide not less than 2 percent of the total estimated annual electric energy consumption of the building, or collective buildings on the building site. **610.3** Wind energy system shall be sized to provide not less than 2 percent of the total estimated annual electric energy consumption of the building, or collective buildings on the building site. **610.4** Not less than 10 percent of the building's annual estimated hot water energy usage shall be supplied by onsite solar water heating equipment.	City Review (MPE)	Commissioning Agent
☐	**610.5 Renewable energy system performance monitoring and metering.** Renewable energy systems shall be metered and monitored in accordance with Sections 610.5.1 and 610.5.2 (see IgCC for details).	City Review (MPE)	Commissioning Agent

Chapter 7 – Water Resource Conservation and Efficiency			
√	**Section 702: Fixtures, Fittings, Equipment and Appliances**	**Plan Review**	**Inspections**
☐	**702.1 Fitting and fixture consumption.** Fixtures shall comply with Table 702.1 and provisions specified in the IgCC. **702.2 thru 702.20** The following fixtures, fittings, equipment and appliances shall meet the requirements specified in the respective sections of the IgCC. **702.2** Combination tub and shower valves. **702.3** Food pre-rinse spray valves. **702.4** Drinking fountain controls. **702.5** Non-water urinal connection. **702.6** Appliances. **702.7** Municipal reclaimed water. **702.8** Efficient hot water distribution. **702.9** Trap priming water. **702.10** Water-powered pumps. **702.11** Food service handwashing faucets. **702.12** Dipper wells. **702.13** Automated vehicle wash facilities. **702.14** Self-service vehicle wash facilities. **702.15** Vehicle washing facilities. **702.16** Food waste disposers. **702.17** Combination ovens. **702.18** Autoclaves and sterilizers. **702.19** Liquid ring vacuum pumps. **702.20** Film processors.	City Review (MPE)	Commissioning Agent
√	**Section 703: HVAC Systems and Equipment**		
☐	**703.1 thru 703.9** The following HVAC systems and equipment shall meet the requirements specified in the following sections of the IgCC. **703.1** Hydronic closed systems **703.2** Humidification systems **703.3** Condensate coolers and tempering **703.4** Condensate drainage recovery **703.5** Heat exchangers **703.6** Humidifier discharge **703.7** Cooling towers, evaporative condensers and fluid coolers **703.8** Wet-hood exhaust scrubber systems **703.9** Evaporative cooling	City Review (MPE)	Commissioning Agent
√	**Section 704: Water Treatment Devices and Equipment**		
☐	**704.1 Water softeners.** **704.1.1 Demand initiated regeneration**. Water softeners shall be equipped with demand-initiated regeneration control systems. Such control systems shall automatically initiate the regeneration cycle after determining the depletion, or impending depletion of softening capacity. **704.1.2 Water consumption.** Water softeners shall have a maximum water consumption during regeneration of 5 gallons per 1000 grams of hardness removed as measured in accordance with NSF 44. **704.1.3 Waste connections.** Waste water from water softeners regeneration shall not discharge to reclaimed water collection systems and shall discharge in accordance with the	City Review (MPE)	Commissioning Agent

	International Plumbing Code. **704.1.4 Efficiency and listing**. Based on pipe service size, the water softener shall have a rated salt efficiency of not less than 4,000 or 3,500 grains of total hardness exchange per pound of salt based on sodium chloride equivalency and shall be listed and labeled in accordance with NSF 44 (see IgCC for details).		
☐	**704.2 Reverse osmosis water treatment systems.** Point-of use reverse osmosis treatment systems shall be listed and labeled in accordance with NSF 58. The discharge pipe from a reverse osmosis drinking water treatment unit shall connect to the building drainage system in accordance with Section 611.2 of the International Plumbing Code. Point-of-use reverse osmosis systems shall be equipped with an automatic shutoff valve that prevents the production of reject water when there is no demand for treated water.	City Review (MPE)	Commissioning Agent
√	**Section 705: Metering**		
☐	**705.1 Metering.** Water consumed from any source associated with the building or building site shall be metered. Each potable and reclaimed source of water, and each onsite nonpotable water source, shall be metered separately. All potable and nonpotable water supplied to the applications listed in Table 705.1.1 of the IgCC shall be individually metered. Similar appliances and equipment shall be permitted to be grouped and supplied from piping connected to a single meter. Each meter identified in Table 705.1.1 shall be capable of communicating water consumption data remotely and at a minimum, be capable of providing daily data with electronic data storage and reporting capability that can produce reports that show daily, monthly, and annual water consumption.	City Review (MPE)	Commissioning Agent
√	**Section 706: Nonpotable Water Requirements**		
☐	**706.1 Scope.** The provisions specified in this IgCC section governs the use of nonpotable water and the construction, installation, and design of systems utilizing nonpotable water (see IgCC for requirements).	City Review (MPE)	City Inspection
Chapter 8 – Indoor Environmental Quality and Comfort			
√	**Section 801: General**	**Plan Review**	**Inspections**
☐	**801.2 Indoor air quality management plan required.** An indoor air quality management plan shall be developed. Such plan shall address the methods and procedures to be used during design and construction to obtain compliance with Sections 802, 803 and 805.	City Review (MPE)	Commissioning Agent
√	**Section 802: Building Construction Features, Operations, Maintenance**		

☐	**802.3 Air handling system filters**. Filter racks shall be designed to prevent airflow from bypassing filters. Access doors and panels provided for filter replacement shall be fitted with flexible seals to provide an effective seal between the doors and panels and the mating filter rack surfaces. Special tools shall not be required for opening access doors and panels. Filter access panels and doors shall not be obstructed.	City Review (MPE)	Commissioning Agent
√	**Section 803: HVAC Systems**		
☐	**803.1 Construction phase requirements.** The ventilation of buildings during the construction phase shall be in accordance with Sections 803.1.1 through 803.1.3. **803.1.1 Duct openings.** Duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or shall be closed by an approved method to reduce the amount of dust and debris that collects in the system from the time of rough-in installation and until startup of the heating and cooling equipment. Dust and debris shall be cleaned from duct openings prior to system flush out and building occupancy. **803.1.2 Indoor air quality during construction.** **803.1.2.1 Ventilation.** Ventilation during construction shall be achieved through openings in the building envelope using one or more of the following methods: 1. Natural ventilation in accordance with the provisions of the IBC or IMC. 2. Fans that produce a minimum of three air changes per hour. 3. Exhaust in the work area at a rate of not less than 0.05 cfm/ft^2 and not less than 10 percent greater than the supply air rate so as to maintain negative pressurization of the space. **803.1.2.2 Protection of HVAC system openings.** HVAC supply and return duct and equipment openings shall be protected during dust-producing operations. **803.1.2.3 Return air filters.** Where a forced air HVAC system is used during construction, new return air filters shall be installed prior to system flush out and building occupancy.	Commissioning Agent (plans and specs)	Commissioning Agent
☐	**803.2 Thermal environmental conditions for human occupancy.** Buildings shall be designed in compliance with ASHRAE 55, Sections 6.1, "Design," and 6.2, "Documentation" (operational procedures, controls, seasonal set points, schedules).	City Review (MPE)	Commissioning Agent
☐	**803.4 Isolation of pollutant sources.** **803.4.1 Print, copy and janitorial rooms and garages.** Enclosed rooms or spaces that are greater than 100 square feet in area and that are used as a print or copy facility containing five or more printers, copy machines, scanners, facsimile machines or similar machines in any combination, and rooms used primarily as janitorial rooms or closets where the use or storage of chemicals occurs, shall comply with all of the following: 1. The enclosing walls shall extend from the floor surface to the underside of the floor, roof deck or solid ceiling above and shall be constructed to resist the passage of airborne chemical pollutants and shall be constructed and sealed as required for 1-hour fire-	City Review (MPE)	Commissioning Agent

	resistance-rated construction assemblies. 2. Doors in the enclosing walls shall be automatic or self-closing. 3. An HVAC system shall be provided that: provides separate exhaust airflow to the outdoors at a rate of not less than 0.50 cfm per square foot; that maintains a negative pressure of not less than 7 Pa within the room; and that prohibits the recirculation of air from the room to other portions of the building.		
☐	**803.5 Filters.** Filters for air conditioning systems shall be rated at MERV 11 or higher and system equipment shall be designed to be compatible. The air handling system design shall account for pressure drop across the filter.	City Review (MPE)	Commissioning Agent
√	**Section 805: Prohibited Materials**		
☐	**805.1 Scope.** The use of the following materials shall be prohibited: 1. Asbestos-containing materials. 2. Urea-formaldehyde foam insulation.	City Review (Building - plans or specs)	Commissioning Agent
√	**Section 806: Material Emissions and Pollutant Control**		
☐	**806.1 Emissions from composite wood products.** Composite wood products used interior to the approved weather covering of the building shall comply with the emission limits or be manufactured in accordance with the standards cited in Table 806.1 of the IgCC.	City Review (Building - plans or specs)	Commissioning Agent
☐	**806.2 Adhesives and sealants.** A minimum of 85 percent by weight or volume, of site applied adhesives and sealants used on the interior side of the building envelope shall comply with the VOC content limits in Table 806.2(1) or alternative VOC emissions limits in Table 806.2(2).	City Review (Building - plans or specs)	Commissioning Agent
☐	**806.3 Architectural paints and coatings.** A minimum of 85 percent by weight or volume, of site-applied interior architectural coatings shall comply with VOC content limits in Table 806.3(1) or the alternate emissions limits in Table 806.3(2).	City Review (Building - plans or specs)	Commissioning Agent
☐	**806.4 Flooring** A minimum of 85 percent of the total area of flooring installed within the interior of the building shall comply with the requirements of Table 806.4(2).	City Review (Building - plans or specs)	Commissioning Agent
☐	**806.5 Acoustical ceiling tiles and wall systems.** A minimum of 85 percent of acoustical ceiling tiles and wall systems, by square feet, shall comply with the requirements of Table 806.5(2).	City Review (Building - plans or specs)	Commissioning Agent
☐	**806.6 Insulation.** A minimum of 85 percent of insulation shall comply with the requirements of Table 806.6(1) or Table 806.6(2).	City Review (Building - plans or specs)	Commissioning Agent
√	**Section 807: Acoustics**		

☐	**807.2.1 Interior sound transmission.** Wall and floor-ceiling assemblies that separate Group A and F occupancies from one another or from Group B, I, M or R occupancies shall have a sound transmission class (STC) of not less than 60. Wall and floor-ceiling assemblies that separate Group B, I, M or R occupancies from one another shall have a sound transmission class (STC) of not less than 50. Wall and floor-ceiling assemblies that separate Group R condominium occupancies from one another or from other Group B, I, M or R occupancies shall have a sound transmission class (STC) of not less than 55. **Exception:** This section shall not apply to wall and floor-ceiling assemblies enclosing: 1) Public entrances to tenants of covered and open mall buildings; 2) Concession stands and lavatories in Group A-4 and A-5 occupancies; and 3) Spaces and occupancies that are accessory to the main occupancy. **807.2.2 Mechanical and emergency generator equipment and systems.** Wall and floor-ceiling assemblies that separate a mechanical equipment room or space from the remainder of the building shall have a sound transmission class (STC) of not less than 50. Wall and floor-ceiling assemblies that separate a generator equipment room or space from the remainder of the building shall have a sound transmission class (STC) of not less than 60.	City Review (Building)	Commissioning Agent
√	**Section 808: Daylighting**		
☐	**808.2 Applicability.** Daylighting of building spaces in accordance with Section 808.3 shall be required for buildings containing Group A-3, B, E, F, S and M occupancies. **808.3 Daylit area of building spaces.** In buildings not greater than two stories above grade, not less than 50 percent of the net floor area shall be located within a daylit area. In buildings three or more stories above grade, not less than 25 percent of the net floor area shall be located within a daylit area. Buildings required to have more than 25,000 square feet of daylit area shall comply with Section 808.3.2 (performance). All other buildings shall comply with either Section 808.3.1 (prescriptive) or Section 808.3.2 (performance).	City Review (Building)	Commissioning Agent