

Chapter 4-07

BOISE CITY GREEN CONSTRUCTION CODE

Sections:

4-07-01	PURPOSE
4-07-02	CODE ADOPTED
4-07-03	IGCC AMENDMENT, SECTION 101.1, TITLE
4-07-04	IGCC AMENDMENT, SECTION 101.3, SCOPE
4-07-05	IGCC AMENDMENT, SECTION 102.4, REFERENCED CODES AND STANDARDS
4-07-06	IGCC AMENDMENT, SECTION 102.6, EXISTING STRUCTURES
4-07-07	IGCC AMENDMENT, SECTION 103.1, GENERAL
4-07-08	IGCC AMENDMENT ADD SECTION 103.5, STOP WORK ORDER
4-07-09	IGCC AMENDMENT ADD SECTION 105.6, APPROVED PROGRAMS
4-07-10	IGCC AMENDMENT, SECTION 108, BOARD OF APPEALS & 108.1, GENERAL
4-07-11	IGCC AMENDMENT, SECTION 108.2, LIMITATIONS ON AUTHORITY IS DELETED
4-07-12	IGCC AMENDMENT, SECTION 108.3, QUALIFICATIONS IS DELETED
4-07-13	IGCC AMENDMENT ADD SECTIONS 110, VIOLATIONS & 110.1, GENERAL
4-07-14	IGCC AMENDMENT ADD SECTIONS 111, INCENTIVES & 111.1, GENERAL
4-07-15	IGCC AMENDMENT ADD SECTIONS 112, CITY BUILDINGS & 112.1, GENERAL
4-07-16	IGCC AMENDMENT, SECTION 201.3, TERMS DEFINED IN OTHER CODES
4-07-17	IGCC AMENDMENT, TABLE 302.1, REQUIREMENTS DETERMINED BY THE JURISDICTION
4-07-18	IGCC AMENDMENT, SECTION 402.2.2, FLOOD HAZARD AREA PRESERVATION, SPECIFIC
4-07-19	IGCC AMENDMENT, SECTION 402.2.3, DEVELOPMENT IN FLOOD HAZARD AREAS
4-07-20	IGCC AMENDMENT, SECTION 402.3, SURFACE WATER PROTECTION INCLUDING DELETING THE EXCEPTIONS
4-07-21	IGCC AMENDMENT, SECTION 402.4, WETLAND PROTECTION INCLUDING DELETING THE EXCEPTION
4-07-22	IGCC AMENDMENT, SECTION 402.5, CONSERVATION AREA
4-07-23	IGCC AMENDMENT, SECTION 403.1, STORMWATER MANAGEMENT
4-07-24	IGCC AMENDMENT, SECTION 403.1.1, INCREASED RUNOFF IS DELETED
4-07-25	IGCC AMENDMENT, SECTION 403.1.2, ADJOINING LOTS AND PROPERTY IS DELETED
4-07-26	IGCC AMENDMENT, SECTION 405.1.1, STORMWATER POLLUTION

- PREVENTION PLAN**
- 4-07-27 IGCC AMENDMENT, SECTION 405.1.2, TOPSOIL PROTECTION IS DELETED**
 - 4-07-28 IGCC AMENDMENT, SECTION 405.2.1, VEGETATION AND SOIL PROTECTION PLAN**
 - 4-07-29 IGCC AMENDMENT, SECTION 405.2.1.1, TREE PROTECTION ZONES (TPZ)**
 - 4-07-30 IGCC AMENDMENT, SECTION 405.3 NATIVE AND ADAPTIVE PLANT LANDSCAPING**
 - 4-07-31 IGCC AMENDMENT, SECTION 406.1, BUILDING SITE WASTE MANAGEMENT PLAN**
 - 4-07-32 IGCC AMENDMENT, SECTION 407.2, CHANGING AND SHOWER FACILITIES**
 - 4-07-33 IGCC AMENDMENT, SECTION 407.3, BICYCLE PARKING AND STORAGE INCLUDING DELETING THE EXCEPTIONS**
 - 4-07-34 IGCC AMENDMENT, SECTION 407.3.1, SHORT-TERM BICYCLE PARKING INCLUDING DELETING THE EXCEPTION**
 - 4-07-35 IGCC AMENDMENT, SECTION 407.3.2, LONG-TERM OR COVERED BICYCLE PARKING INCLUDING DELETING THE LAST PARAGRAPH**
 - 4-07-36 IGCC AMENDMENT, SECTION 408.2, SITE HARDSCAPE**
 - 4-07-37 IGCC AMENDMENT, SECTION 408.2.4, PERVIOUS AND PERMEABLE PAVEMENT**
 - 4-07-38 IGCC AMENDMENT, SECTION 409.1, LIGHT POLLUTION CONTROL**
 - 4-07-39 IGCC AMENDMENT, SECTION 503.1, CONSTRUCTION MATERIAL AND WASTE MANAGEMENT PLAN**
 - 4-07-40 IGCC AMENDMENT, SECTION 504.1, RECYCLING AREAS FOR WASTE GENERATED POST CERTIFICATE OF OCCUPANCY INCLUDING DELETING ITEMS 3, 3.1 AND 3.2**
 - 4-07-41 IGCC AMENDMENT, SECTION 505.2, MATERIAL SELECTION**
 - 4-07-42 IGCC AMENDMENT, SECTION 603.6, ENERGY DISPLAY**
 - 4-07-43 IGCC AMENDMENT, SECTION 607.6.1, BURIED PIPING, EXCEPTION**
 - 4-07-44 IGCC AMENDMENT, SECTION 608.6, PLUG LOAD CONTROLS AND ALL SUBSECTIONS 608.6.1 THROUGH 608.6.6 ARE DELETED**
 - 4-07-45 IGCC AMENDMENT, SECTION 609.2.1, ELEVATORS**
 - 4-07-46 IGCC AMENDMENT, SECTION 609.2.1.5, GUIDES IS DELETED**
 - 4-07-47 IGCC AMENDMENT, SECTION 609.2.2, ESCALATORS AND MOVING WALKWAYS**
 - 4-07-48 IGCC AMENDMENT, SECTION 609.2.2.5, STANDBY MODE**
 - 4-07-49 IGCC AMENDMENT, SECTION 610.1, RENEWABLE ENERGY SYSTEMS REQUIREMENTS**
 - 4-07-50 IGCC AMENDMENT SECTION 610.5, GEOTHERMAL HEATING SYSTEMS**
 - 4-07-51 IGCC AMENDMENT RENUMBER SECTION 610.5, RENEWABLE ENERGY SYSTEM PERFORMANCE MONITORING AND METERING, TO SECTION 610.6**

- 4-07-52 IGCC AMENDMENT RENUMBER SECTION 610.5.1, METERING, TO SECTION 610.6.1
- 4-07-53 IGCC AMENDMENT RENUMBER SECTION 610.5.2, MONITORING, TO SECTION 610.6.2
- 4-07-54 IGCC AMENDMENT, SECTION 611.1.5.4, FINAL COMMISSIONING REPORT
- 4-07-55 IGCC AMENDMENT, SECTION 611.1.5.5, POST-OCCUPANCY RECOMMISSIONING IS DELETED
- 4-07-56 IGCC AMENDMENT, SECTION 611.3.5, POST-OCCUPANCY RECOMMISSIONING IS DELETED
- 4-07-57 IGCC AMENDMENT ADD SECTION 611.5 RENEWABLE ENERGY SYSTEMS COMMISSIONING AND COMPLETION REQUIREMENTS
- 4-07-58 IGCC AMENDMENT ADD SECTION 701.1.1, GRAY WATER SYSTEMS
- 4-07-59 IGCC AMENDMENT ADD SECTION 701.1.2, WATER REUSE
- 4-07-60 IGCC AMENDMENT, SECTION 704.2, REVERSE OSMOSIS WATER TREATMENT SYSTEMS
- 4-07-61 IGCC AMENDMENT, SECTION 704.3, ONSITE RECLAIMED WATER TREATMENT SYSTEMS
- 4-07-62 IGCC AMENDMENT, SECTION 706.2, SIGNAGE REQUIRED
- 4-07-63 IGCC AMENDMENT ADD SECTION 707.1.1, WATER REUSE
- 4-07-64 IGCC AMENDMENT, SECTION 707.2, POTABLE WATER CONNECTIONS
- 4-07-65 IGCC AMENDMENT, SECTION 707.10, TRENCHING REQUIREMENTS, INCLUDING DELETING ONE OF THE EXCEPTIONS
- 4-07-66 IGCC AMENDMENT, SECTION 707.11.1.1, POTABLE WATER APPLICATIONS
- 4-07-67 IGCC AMENDMENT, SECTION 707.11.3.1, SLOPE
- 4-07-68 IGCC AMENDMENT, SECTION 707.11.3.2, SIZE
- 4-07-69 IGCC AMENDMENT, SECTION 707.11.4.2, SIZE
- 4-07-70 IGCC AMENDMENT, SECTION 707.11.7.4, OVERFLOW
- 4-07-71 IGCC AMENDMENT, SECTION 707.11.11.1, WATER-PRESSURE-REDUCING VALVE OR REGULATOR
- 4-07-72 IGCC AMENDMENT, SECTION 707.11.12.4, MARKING INCLUDING DELETING THE EXCEPTION
- 4-07-73 IGCC AMENDMENT, SECTION 707.12.1, DRAINAGE AND VENT TESTS
- 4-07-74 IGCC AMENDMENT, SECTION 707.12.2, DRAINAGE AND VENT FINAL TEST
- 4-07-75 IGCC AMENDMENT, SECTION 707.12.3, WATER SUPPLY SYSTEM TEST
- 4-07-76 IGCC AMENDMENT, SECTION 707.12.4, INSPECTION AND TESTING OF BACKFLOW PREVENTION ASSEMBLIES
- 4-07-77 IGCC AMENDMENT ADD SECTION 708.1.1, GRAY WATER SYSTEMS
- 4-07-78 IGCC AMENDMENT, SECTION 708.3, POTABLE WATER CONNECTIONS

- 4-07-79 IGCC AMENDMENT, SECTION 708.5.1, GRAY WATER SYSTEMS FOR LANDSCAPE IRRIGATION IS DELETED
- 4-07-80 IGCC AMENDMENT, SECTION 708.6, APPLICATIONS IS DELETED
- 4-07-81 IGCC AMENDMENT, SECTION 708.10, TRENCHING REQUIREMENTS, INCLUDING DELETING EXCEPTIONS 3, 4, 5, & 6
- 4-07-82 IGCC AMENDMENT, SECTION 708.11, SYSTEM ABANDONMENT IS DELETED
- 4-07-83 IGCC AMENDMENT, SECTION 708.12, GRAY WATER SYSTEMS
- 4-07-84 IGCC AMENDMENT, SECTION 708.12.6, STORAGE TANK AND ALL SUBSECTIONS 708.12.6.1 THROUGH 708.12.6.10 ARE DELETED
- 4-07-85 IGCC AMENDMENT, SECTION 708.12.8, VENT PIPING IS DELETED
- 4-07-86 IGCC AMENDMENT, SECTION 708.12.9.3, WATER-PRESSURE-REDUCING VALVE OR REGULATOR
- 4-07-87 IGCC AMENDMENT, SECTION 708.12.10.4, MARKING INCLUDING DELETING THE EXCEPTION
- 4-07-88 IGCC AMENDMENT, SECTION 708.13, TESTS AND INSPECTIONS
- 4-07-89 IGCC AMENDMENT, SECTION 708.13.1, DRAINAGE AND VENT TEST
- 4-07-90 IGCC AMENDMENT, SECTION 708.13.2, DRAINAGE AND VENT FINAL TEST
- 4-07-91 IGCC AMENDMENT, SECTION 708.13.3, WATER SUPPLY SYSTEM TEST
- 4-07-92 IGCC AMENDMENT, SECTION 708.13.4, INSPECTION AND TESTING OF BACKFLOW PREVENTION ASSEMBLIES
- 4-07-93 IGCC AMENDMENT, SECTION 708.13.6, STORAGE TANK TESTS IS DELETED
- 4-07-94 IGCC AMENDMENT, SECTION 708.13.7, SUPPLY PRESSURE TEST IS DELETED
- 4-07-95 IGCC AMENDMENT, SECTION 708.13.8, WATER QUALITY TEST IS DELETED
- 4-07-96 IGCC AMENDMENT, SECTION 708.14, SUBSURFACE GRAY WATER IRRIGATION SYSTEMS
- 4-07-97 IGCC AMENDMENT, SECTION 708.14, SUBSURFACE GRAY WATER IRRIGATION SYSTEMS, ALL SUBSECTIONS 708.14.1 THROUGH 708.14.6 ARE DELETED
- 4-07-98 IGCC AMENDMENT ADD SECTION 709.1.1, RECLAIMED WATER SYSTEMS
- 4-07-99 IGCC AMENDMENT, SECTION 709.3, POTABLE WATER CONNECTIONS
- 4-07-100 IGCC AMENDMENT, SECTION 709.5.1, RECLAIMED WATER FOR LANDSCAPE IRRIGATION INCLUDING THE EXCEPTION IS DELETED
- 4-07-101 IGCC AMENDMENT, SECTION 709.7, WATER-PRESSURE-REDUCING VALVE OR REGULATOR
- 4-07-102 IGCC AMENDMENT, SECTION 709.8, TRENCHING REQUIREMENTS, INCLUDING DELETING ALL THE EXCEPTIONS
- 4-07-103 IGCC AMENDMENT SECTION 709.9, RECLAIMED WATER SYSTEMS

- 4-07-104 IGCC AMENDMENT, SECTION 709.9.1.4, MARKING INCLUDING DELETING THE EXCEPTION
- 4-07-105 IGCC AMENDMENT, SECTION 709.10, TESTS AND INSPECTIONS
- 4-07-106 IGCC AMENDMENT, SECTION 709.10.1, WATER SUPPLY SYSTEM TEST IS DELETED
- 4-07-107 IGCC AMENDMENT, SECTION 709.10.2, INSPECTION AND TESTING OF BACKFLOW PREVENTION ASSEMBLIES IS DELETED
- 4-07-108 IGCC AMENDMENT, ADD SECTION 902.1.4, QUALIFICATIONS
- 4-07-109 IGCC AMENDMENT, SECTION 903.1, GENERAL
- 4-07-110 IGCC AMENDMENT, SECTION 903.1.1, PREOCCUPANCY REPORT REQUIREMENT
- 4-07-111 IGCC AMENDMENT, SECTION 903.1.2, FINAL COMMISSIONING REPORT REQUIREMENT
- 4-07-112 IGCC AMENDMENT, TABLE 903.1, COMMISSIONING PLAN
- 4-07-113 IGCC AMENDMENT, SECTION 1001.4, EXISTING MATERIALS, ASSEMBLIES, CONFIGURATIONS AND SYSTEMS
- 4-07-114 IGCC AMENDMENT, ADD SECTION 1001.5, NEW AND REPLACEMENT MATERIALS, ASSEMBLIES, CONFIGURATIONS AND SYSTEMS
- 4-07-115 IGCC AMENDMENT, SECTION 1006.1, DECONSTRUCTION AND DEMOLITION MATERIAL AND WASTE MANAGEMENT PLAN
- 4-07-116 IGCC AMENDMENT, SECTION 1101.4.1, EXISTING MATERIALS, ASSEMBLIES, CONFIGURATIONS AND SYSTEMS
- 4-07-117 IGCC AMENDMENT, SECTION 1103.2, CHANGES TO HARDSCAPES AND SURFACE VEHICLE PARKING
- 4-07-118 IGCC AMENDMENT, SECTION 1104.2, BUILDING SITE IMPROVEMENTS
- 4-07-119 IGCC AMENDMENT, CHAPTER 12, REFERENCED STANDARDS
- 4-07-120 IGCC AMENDMENT, APPENDIX A SECTION A102.2, REQUIRED NUMBER OF AND SELECTION OF PROJECT ELECTIVES
- 4-07-121 IGCC AMENDMENT, APPENDIX A TABLE A104, SITE PROJECT ELECTIVES
- 4-07-122 IGCC AMENDMENT, APPENDIX A SECTION A104.7, CHANGING AND SHOWER FACILITIES PROJECT ELECTIVE
- 4-07-123 IGCC AMENDMENT, APPENDIX A SECTION A104.8, LONG-TERM BICYCLE PARKING AND STORAGE PROJECT ELECTIVE INCLUDING DELETING ITEM 3
- 4-07-124 IGCC AMENDMENT, APPENDIX A TABLE A106, ENERGY CONSERVATION AND EFFICIENCY
- 4-07-125 IGCC AMENDMENT, APPENDIX A SECTION A107.3, ALTERNATE ONSITE NONPOTABLE WATER FOR OUTDOOR HOSE CONNECTIONS PROJECT ELECTIVE IS DELETED
- 4-07-126 IGCC AMENDMENT, APPENDIX A SECTION A107.3.1, SIGNAGE IS DELETED
- 4-07-127 IGCC AMENDMENT, APPENDIX A TABLE A107, WATER RESOURCE CONSERVATION AND EFFICIENCY, THE ROW WITH SECTION

A107.3 AND A DESCRIPTION OF ALTERNATE ONSITE NONPOTABLE WATER FOR OUTDOOR HOSE CONNECTIONS IS DELETED FROM THE TABLE

- 4-07-128 IGCC AMENDMENT, APPENDIX A SECTION A107.4, ALTERNATE ONSITE NONPOTABLE WATER FOR PLUMBING FIXTURE FLUSHING WATER PROJECT ELECTIVE**
- 4-07-129 IGCC AMENDMENT, APPENDIX A SECTION A107.5.2, SOURCE VOLUME INDICATION**
- 4-07-130 IGCC AMENDMENT, APPENDIX A SECTION A107.5.3, QUALITY OF WATER USED FOR FIRE SUPPRESSION**
- 4-07-131 IGCC AMENDMENT, APPENDIX A SECTION A107.7, ALTERNATE ONSITE NONPOTABLE WATER FOR INDUSTRIAL PROCESS MAKEUP WATER PROJECT ELECTIVE**
- 4-07-132 IGCC AMENDMENT, APPENDIX A SECTION A107.8, ALTERNATE ONSITE NONPOTABLE WATER FOR COOLING TOWER MAKEUP WATER PROJECT ELECTIVE**

Section 4-07-01 PURPOSE

The purpose of this Chapter is to establish regulations increasing the sustainability components of buildings and sites beyond the minimum requirements of other adopted codes using prescriptive and performance related provisions. The provisions of this Chapter shall regulate the design of site development and land use, material resource conservation and efficiency, energy conservation efficiency and CO2 emission reduction, water resource conservation quality and efficiency, indoor environmental quality, commissioning operation and maintenance, existing buildings, and existing building site development design in new construction.

Section 4-07-02 CODE ADOPTED

All rules, regulations and ordinances applying to the design, construction, quality of materials, erection, installation, alteration, repair, location, relocation, replacement, addition to, use or maintenance of the building systems, contained in book and in code form, designated and entitled “2012 *International Green Construction Code*” including Appendix A Project Electives published under the authority of the International Code Council, Inc. (IGCC), is ratified and adopted, except as said rules and regulations are hereby changed, altered and amended by this Ordinance. The 2012 edition of the *International Green Construction Code*, and amendments pursuant to this ordinance, shall be known as the Green Construction Code of Boise City. One (1) copy of the 2012 *International Green Construction Code* shall be filed for use and examination by the public in the office of the City Clerk.

Section 4-07-03 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 101.1, TITLE

101.1 Title. These regulations shall be known as the *Green Construction Code* of Boise City, hereinafter referred to as “this code”.

Section 4-07-04 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 101.3, SCOPE

101.3 Scope. An applicant may elect to proceed under the provisions of the Green Construction Code. In such cases, the provisions of this code shall apply to the design, construction, addition, alteration, change of occupancy, relocation, replacement, repair, equipment, building site, maintenance, removal and demolition of every building or structure or any appurtenances connected or attached to such buildings or structures and to the site on which the building is located. Occupancy classifications shall be determined in accordance with the *International Building Code* (IBC). Applicants may voluntarily elect to have projects comply with this code during the building permit application period unless compliance with this code is required as an agreed upon condition of approval through the Planning and Zoning approval process.

Exceptions:

1. The code shall not apply to items 1.1, 1.2 and 1.3 except where the jurisdiction adopts the jurisdictional requirements of Section 302.1, Item 1, for residential buildings.
 - 1.1. Detached one- and two-family dwellings and multiple single-family dwellings (townhouses) not more than three stories in height above grade plane with a separate means of egress, their accessory structures, and the site or lot upon which these buildings are located.
 - 1.2. Group R-3 residential buildings, their accessory structures, and the site or lot upon which these buildings are located.
 - 1.3. Group R-2 and R-4 residential buildings four stories or less in height above grade plane, their accessory structures, and the site or lot upon which these buildings are located.
2. The code shall not apply to equipment or systems that are used primarily for industrial or manufacturing.
3. The code shall not apply to temporary structures approved under Section 3103 of the *International Building Code*.
4. Where ASHRAE 189.1 is selected in accordance with Section 301.1.1, ASHRAE 189.1 shall not apply to buildings identified in Exceptions 1 through 3.

Section 4-07-05 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 102.4, REFERENCED CODES AND STANDARDS

102.4 Referenced codes and standards. The following codes shall be considered part of the requirements of this code: the *International Building Code* (IBC), the *International Code Council Performance Code* (ICCPC), the *International Energy Conservation Code* (IECC), the *International Existing Building Code* (IEBC), the *International Fire Code* (IFC), the *International Fuel Gas Code* (IFGC), the *International Mechanical Code* (IMC), and the *National Electrical Code* (NEC). All references to the *International Plumbing Code* (IPC) shall be construed as referring to the *Uniform Plumbing Code* (UPC), as adopted and amended by the Idaho State Plumbing Board, which is known as the *Idaho State Plumbing Code*.

Section 4-07-06 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION

102.6, EXISTING STRUCTURES

102.6 Existing structures. The legal occupancy of any structure existing on the date of adoption of this code shall continue without change, except as is specifically covered in this code, the *International Building Code*, the *International Existing Building Code*, or the *International Fire Code*, or as is deemed necessary by the code official for the general safety and welfare of building occupants and the public.

Section 4-07-07 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 103.1, GENERAL

103.1 General. The building official established under City adoption of the *International Building Code*, shall be referred to as the code official under this code, and is hereby authorized and directed to enforce the provisions of this code. The code official shall have the authority to render interpretations of this code and to adopt policies and procedures in order to clarify the application of its provisions and how this code relates to other applicable codes and ordinances. Such interpretations, policies and procedures shall be in compliance with the intent and purpose of this code and other applicable codes and ordinances. Such policies and procedures shall not have the effect of waiving requirements specifically provided for in this code or other applicable codes and ordinances.

Section 4-07-08 IGCC GREEN CONSTRUCTION CODE AMENDMENT, ADD SECTION 103.5, STOP WORK ORDER

103.5 Stop work order. Whenever the code official identifies any work regulated by and conducted under the *Green Construction Code* performed in a manner contrary to the provisions of this code or in a dangerous or unsafe manner, the code official is authorized to issue a stop work order in accordance with Section 115 of the *International Building Code*.

Section 4-07-09 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 105.6, APPROVED PROGRAMS

105.6 Approved programs. The code official may deem other national, state or local programs as equivalent to or exceeding this code's requirements. Building projects approved in writing by such a program shall be considered to be in compliance with this code. Such programs include, but are not limited to, new buildings that achieve certification under the U.S. Green Building Council (USGBC) Leadership in Energy and Environmental Design (LEED) at a Silver or higher rating, or at a rating of two (2) Green Globes or higher under the Green Globes program. Equivalency for existing buildings are those that achieve certification under the USGBC Leadership in Energy and Environmental Design (LEED) at Certified or higher or a rating of one (1) Green Globe or higher under the Green Globes program.

Section 4-07-10 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 108 BOARD OF APPEALS & 108.1 GENERAL

108.1 General. Appeals of orders, decisions or determinations made by the code official relative

to the application and interpretation of this code shall be made to the Board of Appeals created under *International Building Code* amendments in the Boise City Building Code of Boise City Municipal Code.

Section 4-07-11 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 108.2, LIMITATIONS ON AUTHORITY IS DELETED

Section 4-07-12 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 108.3, QUALIFICATIONS IS DELETED

Section 4-07-13 IGCC GREEN CONSTRUCTION CODE AMENDMENT, ADD SECTIONS 110 VIOLATIONS & 110.1 GENERAL

**SECTION 110
VIOLATIONS**

110.1 General. When proceeding under the *Green Construction Code*, violations of any provision of the *Green Construction Code* identified by the code official shall be subject to penalties outlined in the Boise City Building Code of Boise City Municipal Code.

Section 4-07-14 IGCC GREEN CONSTRUCTION CODE AMENDMENT, ADD SECTIONS 111 INCENTIVES AND 111.1 GENERAL

**SECTION 111
INCENTIVES**

111.1 General. Projects voluntarily complying with the provisions of the *Green Construction Code* may apply for the following incentives when available:

1. Acceptance of project into the Planning & Development Services Project Management Program.
2. Expedited building permit application review.
3. Recognition and marketing assistance (such as awards, jobsite displays/signage, press releases, recognition on City internet site, recognition in quarterly newsletter, and other means).
4. Any other incentive programs created and approved by City Council directed at green construction.

Section 4-07-15 IGCC GREEN CONSTRUCTION CODE AMENDMENT, ADD SECTIONS 112 CITY BUILDINGS AND 112.1 GENERAL

**SECTION 112
CITY BUILDINGS**

112.1 General. Construction of new buildings by the City of Boise shall comply with the provisions of the *Green Construction Code* or other approved programs as outlined in section

105.6 of this code.

Exception: Unconditioned buildings, buildings not typically occupied, buildings with specialized industrial or mechanical equipment or similar buildings, may be exempted from this code by the code official.

Section 4-07-16 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 201.3, TERMS DEFINED IN OTHER CODES

201.3 Terms defined in other codes. Where terms are not defined in this code and are defined in the currently adopted editions of the *International Building Code, International Energy Conservation Code, International Fire Code, International Fuel Gas Code, International Mechanical Code, International Residential Code, National Electrical Code* or the *Uniform Plumbing Code*, such terms shall have the meanings ascribed to them as in those codes.

Section 4-07-17 IGCC GREEN CONSTRUCTION CODE AMENDMENT, TABLE 302.1, REQUIREMENTS DETERMINED BY THE JURISDICTION

Table 302.1 is amended to read as follows:

**TABLE 302.1
ENHANCED REQUIREMENTS DETERMINED BY THE JURISDICTION**

Section	Section Title or Description and Directives	Jurisdictional Requirements	
CHAPTER 1. SCOPE			
101.3 Exception 1.1	Detached one- and two-family dwellings and multiple single family dwellings (townhouses) not more than three stories in height above grade plane with a separate means of egress, their accessory structures, and the site or lot upon which these buildings are located, shall comply with ICC 700.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
101.3 Exception 1.2	Group R-3 residential buildings, their accessory structures, and the site or lot upon which these buildings are located, shall comply with ICC 700.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
101.3 Exception 1.3	Group R-2 and R-4 residential buildings four stories or less in height above grade plane, their accessory structures, and the site or lot upon which these buildings are located, shall comply with ICC 700-2012 at Bronze rating level or higher.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
CHAPTER 4. SITE DEVELOPMENT AND LAND USE			
402.2.1	Flood hazard area preservation, general	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
402.2.2	Flood hazard area preservation, specific - In accordance with Flood Hazard Regulations and Waterways Overlay Districts of the City Development Code	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
402.3	Surface water protection - In accordance with Flood Hazard Regulations and Waterways Overlay Districts of the City Development Code	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
402.5	Conservation area - In accordance with Waterways Overlay Districts and Hillside & Foothills Development Standards of the City Development Code	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
402.7	Agricultural land	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

402.8	Greenfield sites	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
407.4.1	High-occupancy vehicle parking	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
407.4.2	Low-emission, hybrid and electric vehicle parking	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
409.1	Light pollution control	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
CHAPTER 5. MATERIAL RESOURCE CONSERVATION AND EFFICIENCY			
503.1	Minimum percentage of waste material diverted from landfills	<input checked="" type="checkbox"/> 35%	<input type="checkbox"/> 50%
		<input type="checkbox"/> 65%	<input type="checkbox"/> 75%
CHAPTER 6. ENERGY CONSERVATION, EFFICIENCY AND CO_{2e} EMISSION REDUCTION			
302.1, 302.1.1, 602.1	zEPI of Jurisdictional Choice - The jurisdiction shall indicate a zEPI of 46 or less in each occupancy for which it intends to require enhanced energy performance.	Occupancy: <u> N/A </u> zEPI: <u> N/A </u>	
604.1	Automated demand response infrastructure	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
CHAPTER 7. WATER RESOURCE CONSERVATION, QUALITY AND EFFICIENCY			
702.7	Municipal reclaimed water	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
CHAPTER 8. INDOOR ENVIRONMENTAL QUALITY AND COMFORT			
804.2	Post-Construction Pre-Occupancy Baseline IAQ Testing	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
807.1	Sound transmission and sound levels	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
CHAPTER 10. EXISTING BUILDINGS			
1007.2	Evaluation of existing buildings	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
1007.3	Post Certificate of Occupancy zEPI, energy demand, and CO _{2e} emissions reporting	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

Section 4-07-18 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 402.2.2, FLOOD HAZARD AREA PRESERVATION, SPECIFIC

402.2.2 Flood hazard area preservation, specific. Where this section is indicated to be applicable in Table 302.1, new buildings and structures, site disturbance, and development of land shall be prohibited within specific flood hazard areas as regulated in accordance with the Flood Hazard Regulations and Waterways Overlay Districts of the City Development Code.

Section 4-07-19 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 402.2.3, DEVELOPMENT IN FLOOD HAZARD AREAS

402.2.3 Development in flood hazard areas. New buildings, structures and substantial improvements constructed in flood hazard areas shall be in compliance with the *International Building Code* as adopted and regulated in accordance with the Flood Hazard Regulations of the City Development Code.

Section 4-07-20 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 402.3, SURFACE WATER PROTECTION INCLUDING DELETING THE EXCEPTIONS

402.3. Surface water protection. Where this section is indicated to be applicable in Table

302.1, buildings and building site improvements near bodies of water shall be regulated in accordance with the Flood Hazard Regulations and Waterways Overlay Districts of the City Development Code.

Section 4-07-21 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 402.4, WETLAND PROTECTION INCLUDING DELETING THE EXCEPTION

402.4 Wetland protection. Buildings and building site improvements shall not be located within a wetland and shall be regulated in accordance with the Waterways Overlay Districts of the City Development Code and in accordance with requirements of the United States Army Corps of Engineers when near a wetland.

Section 4-07-22 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 402.5, CONSERVATION AREA

402.5. Conservation area. Where this section is indicated to be applicable in Table 302.1, site disturbance or development of land near designated conservation areas shall be regulated in accordance with the Waterways Overlay Districts and Hillside and Foothills Development Standards of the City Development Code.

Section 4-07-23 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 403.1 STORMWATER MANAGEMENT

403.1 Stormwater management. Stormwater management systems shall comply with the City of Boise Stormwater Management and Discharge Control ordinance.

Section 4-07-24 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 403.1.1, INCREASED RUNOFF IS DELETED

Section 4-07-25 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 403.1.2, ADJOINING LOTS AND PROPERTY IS DELETED

Section 4-07-26 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 405.1.1, STORMWATER POLLUTION PREVENTION PLAN

Section 405.1.1 shall be repealed and replaced with language as follows:

405.1.1 Stormwater pollution prevention plan. Regardless of the size of the site, a written Stormwater Pollution Prevention Plan (SWPPP) that meets the minimum requirements as prescribed in the most current Construction General Permit (CGP) shall be submitted and approved prior to construction. The implementation of an approved SWPPP shall be in compliance with the rules, regulations and standards prescribed in the Construction Site Erosion Control Ordinance of Boise City Municipal Code during all phases of construction. In addition to the CGP requirements, the plan must include the following:

1. Treatment details for each zone of soil that will be restored, including the type, source

and expected volume of materials, including compost amendments, mulch and topsoil.

2. The following plans shall be included as appendices to the SWPPP:
 - 2.1 Vegetation and Soil Protection Plan per Section 405.2 of this code.
 - 2.2 Soil Reuse and Restoration Plan per Section 405.1.4 of this code.
 - 2.3 Building Site Waste Management Plan per Section 406 of this code.
 - 2.4 Invasive Species Management Plan per Section 405.2.2 of this code.

Section 4-07-27 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 405.1.2, TOPSOIL PROTECTION IS DELETED

Section 4-07-28 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 405.2.1, VEGETATION AND SOIL PROTECTION PLAN

Section 405.2.1 shall be struck and replaced with language as follows:

405.2.1 Vegetation and soil protection plan. Where existing soils and vegetation are to be protected, a vegetation and soil protection plan establishing designated vegetation and soil protection areas (VSPAs) shall be submitted with the construction documents and other submittal documents. The protection plan shall be in accordance with Boise City Development Code Chapter 11-07-05.

Section 4-07-29 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 405.2.1.1, TREE PROTECTION ZONES (TPZ)

405.2.1.1 Tree protection zones (TPZ). Where tree protection zones are specified, they shall be in accordance with Boise City Development Code Chapter 11-07-05.

Section 4-07-30 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 405.3, NATIVE AND ADAPTIVE PLANT LANDSCAPING

405.3 Native and adaptive plant landscaping. Where new landscaping is installed as part of a site plan or within the building site, not less than 50 percent of the newly landscaped area shall be planted with native and adaptive plant species. Low water use vegetation shall also be considered appropriate. A list of plant materials which are acceptable is maintained by the Boise City Planning Division.

Exception: Schools, parks, outdoor sports facilities and other similar uses with large open fields are allowed to be less than 50 percent at the discretion of the code official.

Section 4-07-31 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 406.1 BUILDING SITE WASTE MANAGEMENT PLAN

406.1 Building site waste management plan. A building site waste management plan shall be

developed and implemented to divert not less than 75 percent of the land-clearing debris and excavated soils from the landfill. Where it can be shown that diverting 75 percent of debris and soils is not feasible to the satisfaction of the code official, debris and soils shall be diverted from the landfill to the maximum extent possible. Land-clearing debris includes rock, trees, stumps and associated vegetation. The plan shall include provisions that address all of the following:

1. Materials to be diverted from disposal by efficient usage, recycling or reuse on the building site shall be specified.
2. Diverted materials sent to other site locations where approved by the code official.
3. The effective destruction and disposal of invasive plant species.
4. Where contaminated soils are removed, the methods of removal and location where the soils are to be treated and disposed.
5. The amount of materials to be diverted shall be specified and shall be calculated by weight or volume, but not both.
6. Where the site is located in a federal or state designated quarantine zone for invasive insect species, building site vegetation management shall comply with the quarantine rules.
7. Receipts or other documentation related to diversion shall be maintained through the course of construction. When requested by the code official, evidence of diversion shall be provided.

Section 4-07-32 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 407.2, CHANGING AND SHOWER FACILITIES

407.2 Changing and shower facilities. Buildings which require long-term or covered bicycle parking per the Boise City Development Code 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.

When more than one changing room and shower facility is required, separate facilities shall be provided for each sex.

Section 4-07-33 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 407.3, BICYCLE PARKING AND STORAGE INCLUDING DELETING THE EXCEPTIONS

407.3 Bicycle parking and storage. Long-term and short-term bicycle parking shall be designated on the site plan by a registered design professional and as specified in Table 407.3. The required number of spaces shall be per Boise City Development Code Chapter 11-07-03. Accessory occupancy areas shall be included in the calculation of primary occupancy area

Section 4-07-34 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 407.3.1, SHORT-TERM BICYCLE PARKING INCLUDING DELETING THE EXCEPTION

407.3.1 Short-term bicycle parking. Short-term bicycle parking shall comply with all of the following:

1. It shall be provided with illumination of not less than 1 footcandle at the parking surface;
2. It shall be located at the same grade as the sidewalk or at a location reachable by ramp or accessible route;
3. It shall have an area of not less than 30 inches by 72 inches for each bicycle;
4. It shall be provided with a rack or other facility for locking or securing each bicycle; and
5. It shall be located within 50 feet of, and visible from, the main entrance.

Section 4-07-35 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 407.3.2, LONG-TERM OR COVERED BICYCLE PARKING INCLUDING DELETING THE LAST PARAGRAPH

407.3.2 Long-term or covered bicycle parking. Long-term or covered bicycle parking shall comply with all of the following:

1. It shall be located on the same site and within the building or within 50 feet of the main entrances;
2. It shall be provided with illumination of not less than 1 footcandle at the parking surface;
3. It shall have an area of not less than 30 inches by 72 inches by 7 feet for each bicycle; and
4. It shall be provided with a rack or other facility for locking or securing each bicycle.

All long-term bicycle parking shall be within a building or provided with a permanent cover including, but not limited to, roof overhangs, awnings or bicycle storage lockers.

Section 4-07-36 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 408.2, SITE HARDSCAPE

408.2 Site hardscape. In climate zones 1 through 6, as established in the *International Energy Conservation Code*, not less than 40 percent of the site hardscape shall be provided with one or any combination of options described in Sections 408.2.1 through 408.2.4. For the purposes of this section, site hardscape shall not include areas of the site covered by solar photovoltaic arrays or solar thermal collectors.

Section 4-07-37 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 408.2.4, PERVIOUS AND PERMEABLE PAVEMENT

408.2.4 Pervious and permeable pavement. Pervious and permeable pavements including open grid paving systems and open-graded aggregate systems shall have a design infiltration rate not less than 10 inches per hour per square foot. Pervious and permeable pavement shall be permitted where the use of these types of hardscapes does not interfere with fire and emergency

apparatus or vehicle or personnel access and egress, utilities, or telecommunications lines. Aggregate used shall be of uniform size.

Section 4-07-38 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 409.1, LIGHT POLLUTION CONTROL

409.1 Light pollution control. Where this section is indicated to be applicable in Table 302.1, or where chosen as an elective from Table A104 of Appendix A, uplight, light trespass, and glare shall be limited for all exterior lighting equipment as described in Sections 409.2 and 409.3.

Exception: Lighting used for the following exterior applications is exempt where equipped with a control device independent of the control of the nonexempt lighting:

1. Specialized signal, directional, and marker lighting associated with transportation.
2. Advertising signage or directional signage.
3. Lighting integral to equipment or instrumentation and installed by its manufacturer.
4. Theatrical purposes, including performance, stage, film production, and video production.
5. Athletic playing areas where lighting is equipped with hoods or louvers for glare control.
6. Temporary lighting.
7. Lighting for industrial production, material handling, transportation sites, and associated storage areas where lighting is equipped with hoods or louvers for glare control.
8. Theme elements in theme and amusement parks.
9. Roadway lighting required by governmental authorities.
10. Lighting used to highlight features of public monuments and registered landmark structures.
11. Lighting classified for and used in hazardous areas.
12. Lighting for swimming pools and water features.

Section 4-07-39 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 503.1 CONSTRUCTION MATERIAL AND WASTE MANAGEMENT PLAN

503.1 Construction material and waste management plan. Not less than 35 percent of nonhazardous construction waste shall be diverted from disposal, except where other percentages are indicated in Table 302.1. A Construction Material and Waste Management Plan shall be developed and implemented to recycle or salvage construction materials and waste. This plan can be a deferred submittal, however, the plan must be submitted for review and approval prior to the first inspection on the construction site. 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 such as, but not limited to, topsoil, sand and gravel. Land-clearing debris shall include trees, stumps, rocks, and vegetation. Excavated soil, fill material and land-clearing debris shall be managed in accordance with Section 406.1.

Section 4-07-40 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 504.1 RECYCLING AREAS FOR WASTE GENERATED POST CERTIFICATE OF OCCUPANCY INCLUDING DELETING ITEMS 3, 3.1 AND 3.2

504.1 Recycling areas for waste generated post certificate of occupancy. Waste recycling areas for use by building occupants shall be provided in accordance with one of the following:

1. Waste recycling areas shall be designed and constructed in accordance with the City of Boise Solid Waste Ordinance.
2. Where laws or regulations do not exist or where limited recycling services are available, waste recycling areas shall be designed and constructed to accommodate recyclable materials.

Section 4-07-41 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 505.2 MATERIAL SELECTION

505.2 Material selection. Not less than 40 percent of the total building materials used in the project, based on cost, shall comply with Section 505.2.1, 505.2.2, 505.2.3, 505.2.4 or 505.2.5. Where a material complies with more than one section, the material value shall be multiplied by the number of sections that it complies with. The value of total building material cost shall remain constant regardless of whether materials are tabulated in more than one section.

Section 4-07-42 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 603.6 ENERGY DISPLAY

603.6 Energy display. A permanent, readily accessible and visible display shall be provided. The display shall be capable of providing all of the following:

1. The current energy demand for the whole building level measurements, updated for each fuel type at the intervals specified in Section 603.3.

2. The average and peak demands for the previous day and the same day the previous year.
3. The total energy usage for the previous 18 months.

Section 4-07-43 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 607.6.1, BURIED PIPING, EXCEPTION

607.6.1 Buried piping. Service hot water piping installed within a slab or below grade shall be insulated in accordance with Section 607.6 and shall be placed within a physically protective, waterproof channel or sleeve having internal dimensions large enough so that the piping and insulation can be removed and replaced, and maintain its dimensional integrity during and after construction.

Exception: For piping other than that located under building slabs, sleeving is not required where the insulation manufacturer stipulates that the pipe insulation will maintain its insulating value in underground applications in damp soil where installed in accordance with manufacturer's instructions.

Section 4-07-44 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 608.6, PLUG LOAD CONTROLS AND ALL SUBSECTIONS 608.6.1 THROUGH 608.6.6 ARE DELETED

Section 4-07-45 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 609.2.1 ELEVATORS

609.2.1 Elevators. When acceptable by the State of Idaho Division of Building Safety, elevator systems shall comply with Sections 609.2.1.1 through 609.2.1.2.3.

Section 4-07-46 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 609.2.1.5, GUIDES IS DELETED

Section 4-07-47 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 609.2.2 ESCALATORS AND MOVING WALKWAYS

609.2.2 Escalators and moving walkways. When acceptable by the State of Idaho Division of Building Safety, escalators and moving walkways shall comply with Sections 609.2.2.1 through 609.2.2.5.

Section 4-07-48 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 609.2.2.5 STANDBY MODE

609.2.2.5 Standby mode. During standby mode, escalators and moving walkways shall be capable of being automatically slowed to not less than 10 feet per minute of nominal speed. Escalators and moving walkways shall be capable of being turned off when the building is unoccupied or outside of facility operations. In locations where multiple escalators serve the same passenger load, not less than 50 percent of the escalators shall have the capability of being

turned off in response to reduced occupant traffic.

Section 4-07-49 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 610.1 RENEWABLE ENERGY SYSTEMS REQUIREMENTS

610.1 Renewable energy systems requirements. Where chosen as an elective from Table A106 of Appendix A, buildings that consume energy shall comply with this section. Each building or surrounding lot or building site where there are multiple buildings on the building site shall be equipped with one or more renewable energy systems in accordance with this section.

Renewable energy systems shall comply with the requirements of Section 610.2 for solar photovoltaic systems, Section 610.3 for wind systems, Section 610.4 for solar water heating systems, Section 610.5 for geothermal heating systems and Section 610.6 for performance monitoring and metering of these systems as approved by the code official. These systems shall be commissioned in accordance with the requirements of Section 611.

Exception: Renewable energy systems are not required for the following:

1. Buildings or building sites where there are multiple buildings on the building site providing not less than 2 percent of the total estimated annual energy use of the building, or collective buildings on the site, with onsite renewable energy using a combination of renewable energy generation systems complying with the requirements of Section 610.2, 610.3, or 610.4.
2. 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 renewable energy credit ownership, confirmed by the code official.
3. Where the combined application of onsite generated renewable energy and a commitment to renewable energy credit ownership as confirmed by the code official, totals not less than 4 percent of the total annual building energy consumption from renewable generation.

Section 4-07-50 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 610.5 GEOTHERMAL HEATING SYSTEMS

Section 610.5 shall be repealed and replaced with language as follows:

610.5 Geothermal heating systems. Where the City of Boise geothermal system is available for connection at a site, a geothermal heating system can be utilized as a required building renewable energy system. Geothermal heating systems shall be designed and installed in accordance with the requirements of the City of Boise Public Works Department. The City of Boise geothermal system is not a qualifying system when pursuing LEED certification.

Section 4-07-51 IGCC GREEN CONSTRUCTION CODE AMENDMENT, RENUMBER SECTION 610.5 RENEWABLE ENERGY SYSTEM PERFORMANCE MONITORING AND METERING, TO SECTION 610.6

Section 4-07-52 IGCC GREEN CONSTRUCTION CODE AMENDMENT, RENUMBER SECTION 610.5.1 METERING, TO SECTION 610.6.1

Section 4-07-53 IGCC GREEN CONSTRUCTION CODE AMENDMENT, RENUMBER SECTION 610.5.2 MONITORING, TO SECTION 610.6.2

Section 4-07-54 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 611.1.5.4 FINAL COMMISSIONING REPORT

611.1.5.4 Final commissioning report. A complete report of test procedures and results identified as "Final Commissioning Report" shall be completed and provided to the building owner within 12 months after the date of issuance of a certificate of occupancy. At the request of the code official, a copy of the Final Commissioning Report shall be made available for review. The report shall include all of the following:

1. Results of all functional performance tests.
2. Disposition of all deficiencies found during testing, including details of corrective measures used or proposed.
3. All functional performance test procedures used during the commissioning process including measurable criteria for test acceptance, provided herein for repeatability.

Section 4-07-55 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 611.1.5.5, POST-OCCUPANCY RECOMMISSIONING IS DELETED

Section 4-07-56 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 611.3.5, POST-OCCUPANCY RECOMMISSIONING IS DELETED

Section 4-07-57 IGCC GREEN CONSTRUCTION CODE AMENDMENT, ADD SECTION 611.5 RENEWABLE ENERGY SYSTEMS COMMISSIONING AND COMPLETION REQUIREMENTS

611.5 Renewable energy systems commissioning and completion requirements. Prior to issuance of a certificate of occupancy, the registered design professional shall provide evidence of commissioning and completion of any building renewable energy systems installed under Section 610 of this code. Copies of all documentation shall be given to the building owner and made available to the code official upon request.

Section 4-07-58 IGCC GREEN CONSTRUCTION CODE AMENDMENT, ADD SECTION 701.1.1 GRAY WATER SYSTEMS

701.1.1 Gray water systems. Plumbing for gray water systems from any fixture up to, but not including, the exterior irrigation system tank shall be inspected by the Authority Having

Jurisdiction. The Idaho Department of Environmental Quality (IDEQ) shall have jurisdiction to inspect and approve the installation of exterior irrigation system tank and all piping therefrom to the point of disposal in accordance IDAPA 58.1.03, "Individual/Subsurface Sewage Disposal Rules." Gray water system and design criteria requirements related to irrigation and leaching shall be determined in accordance with the requirements as established by the IDEQ.

Section 4-07-59 IGCC GREEN CONSTRUCTION CODE AMENDMENT, ADD SECTION 701.1.2 WATER REUSE

701.1.2 Water reuse. The design of any water reuse system must be permitted and approved by the Idaho Department of Environmental Quality (IDEQ) in accordance with IDAPA 58.01.17, "Recycled Water Rules." All planning, design, and operation of any reuse facilities shall be under the authority of IDEQ. All piping associated with the collection and distribution of these systems shall be inspected by the Authority Having Jurisdiction in accordance with the *Idaho State Plumbing Code*.

Section 4-07-60 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 704.2 REVERSE OSMOSIS WATER TREATMENT SYSTEMS

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 603.4.13 of the *Idaho State 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.

Section 4-07-61 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 704.3 ONSITE RECLAIMED WATER TREATMENT SYSTEMS

704.3 Onsite reclaimed water treatment systems. On site reclaimed water treatment systems, including gray water reuse treatment systems and waste water treatment systems, used to produce non-potable water for use in water closet and urinal flushing, surface irrigation and similar applications must be permitted and approved by the Idaho Department of Environmental Quality (IDEQ) in accordance with IDAPA 58.01.17, as referenced in sections 701.1.1 and 701.1.2 of this code.

Section 4-07-62 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 706.2 SIGNAGE REQUIRED

706.2 Signage required. Where non-potable water is used for a water application, signage shall be provided in accordance with Chapter 16, Part 2, of the *Idaho State Plumbing Code*.

Section 4-07-63 IGCC GREEN CONSTRUCTION CODE AMENDMENT, ADD SECTION 707.1.1 WATER REUSE

707.1.1 Water reuse. Where collected water is to be treated to potable water standards, it shall

be installed in accordance with section 701.1.2.

Section 4-07-64 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 707.2 POTABLE WATER CONNECTIONS

707.2 Potable water connections. Where a potable system is connected to a rainwater collection and conveyance system, the potable water supply shall be protected against backflow in accordance with Section 603 of the *Idaho State Plumbing Code*.

Section 4-07-65 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 707.10 TRENCHING REQUIREMENTS, INCLUDING DELETING ONE OF THE EXCEPTIONS

707.10 Trenching requirements. All water service piping, including piping containing reclaimed water, shall be separated from the building sewer by 5 feet of undisturbed or compacted earth. Pressurized, buried reclaimed water piping shall be separated from potable water piping underground by 10 feet of undisturbed or compacted earth in accordance with section 1618 (C) of the *Idaho State Plumbing Code*. Reclaimed water service pipes shall not be located in, under or above cesspools, septic tanks, septic tank drainage fields or seepage pits. Buried reclaimed water piping shall comply with the requirements of section 315 of the *Idaho State Plumbing Code* for trenching, excavation and backfill.

Exceptions:

1. The required separation distance shall not apply where the bottom of the water service pipe within 5 feet of the sewer is a minimum of 12 inches above the top of the highest point of the sewer and the pipe materials shall comply with the *Idaho State Plumbing Code* for such applications.
2. Water service pipe is permitted to be located in the same trench with a building sewer, provided such sewer is constructed of materials that comply with the *Idaho State Plumbing Code* for such installations.
3. Irrigation piping located outside of a building and downstream of the backflow preventer is not required to meet the trenching requirements where rainwater is used for outdoor applications.

Section 4-07-66 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 707.11.1.1 POTABLE WATER APPLICATIONS

707.11.1.1 Potable water applications. Where collected water is to be treated to potable water standards, it shall be installed in accordance with section 701.1.2.

Section 4-07-67 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 707.11.3.1 SLOPE

707.11.3.1 Slope. Roof gutters, leaders, and rainwater collection piping shall slope continuously toward collection inlets. Gutters and downspouts shall have a slope of not less than 1 unit in 16 units along their entire length, and shall not permit the collection or pooling of water at any point.

Section 4-07-68 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 707.11.3.2 SIZE

707.11.3.2 Size. Gutters and downspouts shall be installed and sized in accordance with section 1106.3 of the *Idaho State Plumbing Code*.

Section 4-07-69 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 707.11.4.2 SIZE

707.11.4.2 Size. Collection piping conveying rainwater from collection surfaces shall be sized in accordance with Chapter 11 of the *Idaho State Plumbing Code* and local rainfall rates.

Section 4-07-70 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 707.11.7.4 OVERFLOW

707.11.7.4 Overflow. The storage tank shall be equipped with an overflow pipe having the same or larger area as the sum of the areas of all tank inlet pipes. The overflow pipe shall be protected from insects or vermin and the discharge from such pipe shall be disposed of in a manner consistent with storm water runoff requirements of the jurisdiction. The overflow pipe shall discharge at a sufficient distance from the tank to avoid damaging the tank foundation or the adjacent property. The overflow drain shall not be equipped with a shutoff valve. A minimum of one cleanout shall be provided on each overflow pipe in accordance with Section 719 of the *Idaho State Plumbing Code*.

Section 4-07-71 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 707.11.11.1 WATER-PRESSURE-REDUCING VALVE OR REGULATOR

707.11.11.1 Water-pressure-reducing valve or regulator. Where the rainwater pressure supplied by the pumping system exceeds 80 psi static, a pressure-reducing valve shall be installed to reduce the pressure in the rainwater distribution system piping to 80 psi static or less. Pressure-reducing valves shall be specified and installed in accordance with Section 608.2 of the *Idaho State Plumbing Code*.

Section 4-07-72 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 707.11.12.4 MARKING INCLUDING DELETING THE EXCEPTION

707.11.12.4 Marking. All non-potable rainwater distribution piping shall be marked in accordance with Sections 1617 and 1619 of the *Idaho State Plumbing Code*.

Section 4-07-73 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 707.12.1 DRAINAGE AND VENT TESTS

707.12.1 Drainage and vent tests. The testing of rainwater collection piping, overflow piping, vent piping and storage tank drains shall be conducted in accordance with Section 712 of the *Idaho State Plumbing Code*.

Section 4-07-74 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 707.12.2 DRAINAGE AND VENT FINAL TEST

707.12.2 Drainage and vent final test. A final test shall be applied to the rainwater collection piping, overflow piping, storage tank, and tank vent piping in accordance with Section 1605 of the *Idaho State Plumbing Code*.

Section 4-07-75 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 707.12.3 WATER SUPPLY SYSTEM TEST

707.12.3 Water supply system test. The testing of makeup water supply piping and rainwater distribution piping shall be conducted in accordance with Section 609 of the *Idaho State Plumbing Code*.

Section 4-07-76 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 707.12.4 INSPECTION AND TESTING OF BACKFLOW PREVENTION ASSEMBLIES

707.12.4 Inspection and testing of backflow prevention assemblies. The testing of backflow preventers and backwater valves shall be conducted in accordance with Section 603 of the *Idaho State Plumbing Code*.

Section 4-07-77 IGCC GREEN CONSTRUCTION CODE AMENDMENT, ADD SECTION 708.1.1 GRAY WATER SYSTEMS

708.1.1 Gray water systems. Jurisdiction of gray water systems shall be governed in accordance with sections 707.1.1 and 707.1.2.

Section 4-07-78 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 708.3 POTABLE WATER CONNECTIONS

708.3 Potable water connections. Where a potable water system is connected to a gray water system, the potable water supply shall be protected against backflow in accordance with Section 602.3 of the *Idaho State Plumbing Code*.

Section 4-07-79 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 708.5.1, GRAY WATER SYSTEMS FOR LANDSCAPE IRRIGATION IS DELETED

Section 4-07-80 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 708.6, APPLICATIONS IS DELETED

Section 4-07-81 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 708.10 TRENCHING REQUIREMENTS, INCLUDING DELETING EXCEPTIONS 3, 4, 5, & 6

708.10 Trenching requirements. All water service piping, including piping containing gray water, shall be separated from the building sewer by 5 feet of undisturbed or compacted earth. Pressurized reclaimed water piping shall be separated from potable water piping underground by 10 feet of undisturbed or compacted earth in accordance with Section 1618 (C) of the *Idaho State Plumbing Code*. Nonpotable water service pipes shall not be located in, under or above cesspools, septic tanks, septic tank drainage fields or seepage pits. Buried gray water piping shall comply with the requirements of Section 315 of the *Idaho State Plumbing Code* for trenching, excavation and backfill.

Exceptions:

1. The required separation distance shall not apply where the bottom of the gray water service pipe within 5 feet of the sewer is not less than 12 inches above the top of the highest point of the sewer and the pipe materials comply with the requirements of the *Idaho State Plumbing Code* for such applications.
2. The required separation distance shall not apply where the bottom of the potable water service pipe within 5 feet (1524 mm) of the gray water pipe is not less than 12 inches above the top of the highest point of the gray water pipe and the pipe materials comply with the requirements of the *Idaho State Plumbing Code* for such applications.

Section 4-07-82 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 708.11, SYSTEM ABANDONMENT IS DELETED

Section 4-07-83 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 708.12 GRAY WATER SYSTEMS

708.12 Gray water systems. The design of the gray water system shall conform to accepted engineering practice and Section 701.1.1.

Section 4-07-84 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 708.12.6, STORAGE TANK AND ALL SUBSECTIONS 708.12.6.1 THROUGH 708.12.6.10 ARE DELETED

Section 4-07-85 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 708.12.8, VENT PIPING IS DELETED

Section 4-07-86 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 708.12.9.3 WATER-PRESSURE-REDUCING VALVE OR REGULATOR

708.12.9.3 Water-pressure-reducing valve or regulator. Where the gray water pressure supplied by the pumping system exceeds 80 psi static, a pressure-reducing valve shall be installed to reduce the pressure in the gray water distribution system piping to 80 psi static or less. Pressure-reducing valves shall be specified and installed in accordance with Section 608.2 of the *Idaho State Plumbing Code*.

Section 4-07-87 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 708.12.10.4 MARKING INCLUDING DELETING THE EXCEPTION

708.12.10.4 Marking. All gray water distribution piping shall be marked in accordance with Sections 1617 and 1619 of the *Idaho State Plumbing Code*.

Section 4-07-88 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 708.13 TESTS AND INSPECTIONS

708.13 Tests and inspections. Tests and inspections shall be performed in accordance with Sections 708.13.1 through 708.13.5.

Section 4-07-89 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 708.13.1 DRAINAGE AND VENT TEST

708.13.1 Drainage and vent test. A pressure test shall be applied to the gray water collection piping, overflow piping, storage tank drainage piping and tank vent piping in accordance with Section 712 of the *Idaho State Plumbing Code*.

Section 4-07-90 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 708.13.2 DRAINAGE AND VENT FINAL TEST

708.13.2 Drainage and vent final test. A final test shall be applied to the gray water collection piping, overflow piping, and tank vent piping in accordance with Section 712 of the *Idaho State Plumbing Code*.

Section 4-07-91 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 708.13.3 WATER SUPPLY SYSTEM TEST

708.13.3 Water supply system test. The testing of makeup water supply piping and rainwater distribution piping shall be conducted in accordance with Section 609.4 of the *Idaho State Plumbing Code*.

Section 4-07-92 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 708.13.4 INSPECTION AND TESTING OF BACKFLOW PREVENTION ASSEMBLIES

708.13.4 Inspection and testing of backflow prevention assemblies. The testing of backflow preventers and backwater valves shall be conducted in accordance with Section 603 of the *Idaho State Plumbing Code*.

Section 4-07-93 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 708.13.6, STORAGE TANK TESTS IS DELETED

Section 4-07-94 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 708.13.7, SUPPLY PRESSURE TEST IS DELETED

Section 4-07-95 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 708.13.8, WATER QUALITY TEST IS DELETED

Section 4-07-96 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 708.14 SUBSURFACE GRAY WATER IRRIGATION SYSTEMS

708.14 Subsurface gray water irrigation systems. Subsurface gray water irrigation systems, where provided in accordance with Section 404.1.1, shall be in accordance with Sections 701.1.1 and 701.1.2.

Section 4-07-97 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 708.14 SUBSURFACE GRAY WATER IRRIGATION SYSTEMS, ALL SUBSECTIONS 708.14.1 THROUGH 708.14.6 ARE DELETED

Section 4-07-98 IGCC GREEN CONSTRUCTION CODE AMENDMENT, ADD SECTION 709.1.1 RECLAIMED WATER SYSTEMS

709.1.1 Reclaimed water systems. All planning, design and operation of reuse facilities shall be in accordance with Section 701.1.2.

Section 4-07-99 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 709.3 POTABLE WATER CONNECTIONS

709.3 Potable water connections. Connections between a reclaimed water system and a potable water system shall be protected against backflow in accordance with Section 603 of the *Idaho State Plumbing Code*.

Section 4-07-100 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 709.5.1, RECLAIMED WATER FOR LANDSCAPE IRRIGATION INCLUDING THE EXCEPTION IS DELETED

Section 4-07-101 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 709.7 WATER-PRESSURE-REDUCING VALVE OR REGULATOR

709.7 Water-pressure-reducing valve or regulator. Where the reclaimed water pressure supplied to the building exceeds 80 psi static, a pressure-reducing valve shall be installed to reduce the pressure in the reclaimed water distribution system piping to 80 psi static or less. Pressure-reducing valves shall be specified and installed in accordance with Section 608 of the *Idaho State Plumbing Code*.

Section 4-07-102 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 709.8 TRENCHING REQUIREMENTS, INCLUDING DELETING ALL THE EXCEPTIONS

709.8 Trenching requirements. All water service piping, including piping containing reclaimed water, shall be separated from the building sewer by 5 feet of undisturbed or compacted earth.

Pressurized reclaimed water piping shall be separated from potable water piping underground by 10 feet of undisturbed or compacted earth in accordance with Section 1618 (C) of the *Idaho State Plumbing Code*. Reclaimed water service pipes shall not be located in, under or above cesspools, septic tanks, septic tank drainage fields or seepage pits. Buried reclaimed water piping shall comply with the requirements of Section 315 of the *Idaho State Plumbing Code* for trenching, excavation and backfill.

Section 4-07-103 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 709.9 RECLAIMED WATER SYSTEMS

709.9 Reclaimed water systems. All planning, design and operation of reuse facilities shall be in accordance with Sections 701.1.1 and 701.1.2.

Section 4-07-104 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 709.9.1.4 MARKING INCLUDING DELETING THE EXCEPTION

709.9.1.4 Marking. All reclaimed water distribution piping shall be marked in accordance with Sections 1617 and 1619 of the *Idaho State Plumbing Code*.

Section 4-07-105 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 709.10 TESTS AND INSPECTIONS

709.10 Tests and inspections. Tests and inspections shall be performed in accordance with Section 1620 of the *Idaho State Plumbing Code*.

Section 4-07-106 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 709.10.1, WATER SUPPLY SYSTEM TEST IS DELETED

Section 4-07-107 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 709.10.2, INSPECTION AND TESTING OF BACKFLOW PREVENTION ASSEMBLIES IS DELETED

Section 4-07-108 IGCC GREEN CONSTRUCTION CODE AMENDMENT, ADD SECTION 902.1.4 QUALIFICATIONS

902.1.4 Qualifications. Personnel employed by an approved agency shall demonstrate competence, qualifications and experience. This includes having certifications such as from AABC Commissioning Group (ACG), American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE), National Environmental Balancing Bureau (NEBB), Association of Energy Engineers (AEE), Building Commissioning Association (BCXA) or equivalent. Professional engineers conducting commissioning shall be licensed with the State of Idaho in the applicable discipline for the type of work being commissioned. Documentation outlining experience and copies of certifications or licenses shall be provided to the code official.

Section 4-07-109 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 903.1 GENERAL

903.1 General. Where application is made for construction as described in this section, the registered design professional in responsible charge or approved agency shall perform commissioning during construction and after occupancy as required by Table 903.1. Where Table 903.1 specifies that commissioning is to be done on a periodic basis, the registered design professional in responsible charge shall provide a schedule of periodic commissioning with the submittal documents that shall be reviewed and approved by the code official.

The approved agency shall be qualified and shall demonstrate competence, to the satisfaction of the code official, for the commissioning of the particular type of construction or operation. The registered design professional in responsible charge and engineers independent from the design of the project are permitted to act as the approved agency provided those personnel meet the qualification requirements of this section and section 902 to the satisfaction of the code official. The approved agency shall provide written documentation to the code official demonstrating competence and relevant experience or training. Experience or training shall be considered relevant where the documented experience or training is related in complexity to the same type of commissioning activities for projects of similar complexity and material qualities.

Section 4-07-110 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 903.1.1 PREOCCUPANCY REPORT REQUIREMENT

903.1.1 Preoccupancy report requirement. The approved agency shall keep records of the commissioning required by Table 903.1. The approved agency shall furnish commissioning reports to the owner and the registered design professional in responsible charge and, upon request, to the code official. Reports shall indicate that work was or was not completed in conformance to approved construction documents. Discrepancies shall be brought to the immediate attention of the contractor for correction. Where discrepancies are not corrected, they shall be brought to the attention of the owner, code official and to the registered design professional in responsible charge prior to the completion of that phase of the work. Prior to the issuance of a Certificate of Occupancy, a preoccupancy commissioning report shall be submitted to and accepted by the code official.

Section 4-07-111 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 903.1.2 FINAL COMMISSIONING REPORT REQUIREMENT

903.1.2 Final commissioning report requirement. Commissioning shall occur as specified in the applicable sections of this code whether preoccupancy or post-occupancy. A final commissioning report shall be provided to the owner within 12 months after the Certificate of Occupancy is issued for the project and shall be made available to the code official upon request.

Section 4-07-112 IGCC GREEN CONSTRUCTION CODE AMENDMENT, TABLE 903.1, COMMISSIONING PLAN

Table 903.1 is amended to read as follows:

TABLE 903.1

COMMISSIONING PLAN

CONSTRUCTION OR SYSTEM REQUIRING VERIFICATION	PREOCCUPANCY	METHOD	OCCURRENCE	SECTION/ REFERENCED STANDARD
			PREOCCUPANCY	
Chapter 4: Site Development and Land Use				
Inventory and assessment of natural resources and base-line conditions of building site	X	Report	With permit submittal	401.2
Landscape irrigation systems	X	Field inspection	Installation or at final inspection	404.1
Stormwater Pollution Prevention Plan (SWPPP) including required appendices	X	SWPPP report	With permit submittal; during construction	405.1.1
Topsoil and vegetation protection measures; setbacks from protected areas	X	In SWPPP (Appendix) report and Field inspection	With permit submittal; installation of measures, prior to other site disturbance	405.1.1, 405.2
Imported soils	X	Field inspection and geotechnical report	With permit submittal; after all-fill operations complete	405.1.3
Soil restoration and reuse	X	In SWPPP (Appendix) report and Field inspection	With permit submittal; preparation and replacement of soils	405.1.1, 405.1.4
Invasive Species Management	X	In SWPPP (Appendix) report and Field inspection	With permit submittal; prior to site disturbance; during landscaping of site	405.1.1, 405.2.2
Stormwater management system operation	X	Report and Field inspection	With permit submittal; installation prior to occupancy	403.1
Erosion and sediment control	X	In SWPPP report and Field inspection	With permit submittal; Site prep inspection, general inspections during construction activities; site final inspection prior to occupancy	405.1.1
Building site waste management	X	In SWPPP (Appendix) report and Field inspection	With permit submittal; during construction	405.1.1, 406.1
Hardscape and shading	X	Report and Field	With permit	408.2

provided by structures and vegetation		inspection	submittal; during construction and installation	
Roof coverings - solar reflectance and thermal emittance - where structures provide shade to parking	X	Report and Field inspection	With permit submittal; installation or at final inspection	408.3
Vegetative roofs	X	Field inspection and report	At installation of protective membranes, base materials, soils and vegetation	408.3.2
Site Lighting	X	Testing and Report	After installation or at final inspection	409
Chapter 5: Material Resource Conservation and Efficiency				
Construction waste management	X	Report and Field inspection	With permit submittal or deferred until first inspection; during construction; at final inspection	503.1
Recycling areas for building occupants	X	Field inspection	At Final inspection	504.1
Storage space for lamps, batteries and electronics	X	Field inspection	At Final inspection	504.2
Material selection or whole building life cycle assessment	X	Field inspection and report	At Installation or at final inspection	505
Lamp mercury content	X	Field inspection	At Final inspection	506
Building envelope moisture control (Section 507.1)				
1. Foundation sub-soil drainage system	X	Field inspection and verification	Periodic inspection for entire sub-soil drainage system	507.1 and IBC Ch. 18
2. Foundation waterproofing	X	Field inspection and verification	Periodic inspection for entire foundation	507.1 and IBC Ch. 18
3. Foundation dampproofing	X	Field inspection and verification	Periodic inspection for entire foundation	507.1 and IBC Ch. 18
4. Under slab water vapor protection	X	Field inspection and verification	Periodic inspection for entire slab footprint	507.1, IBC Ch. 19 and ASTM E 1643
5. Flashing at: exterior windows, doors, skylights, wall flashing and drainage systems	X	Field inspection and verification	Periodic inspection for not less than 25 percent of all flashing locations	507.1 and IBC Ch. 14
6. Exterior wall coverings	X	Field inspection and verification	Periodic inspection for not less than 25 percent of exterior wall cladding systems	507.1 and IBC Ch. 14
7. Roof coverings, roof drainage, and flashings	X	Field inspection and verification	Periodic inspection for not less than 25 percent of roof covering, roof drainage and flashings	507.1 and IBC Ch. 15

Chapter 6: Energy				
Energy consumption, monitoring, targeting and reporting				
a. Monitoring system	X	Inspection and verification with the RDP or approved agency	During construction and prior to occupancy	603, 610.5
b. Calibration	X	Testing and review and evaluation or test reports with the RDP or approved agency	During commissioning	603, 610.5
Mechanical systems completion - all buildings				
a. Air system balancing - provide the means for system balancing	X	Field inspection and verification	During construction and prior to occupancy	611.1.2.1 and through reference to IECC
b. Hydronic system balancing - provide means for system balancing	X	Field inspection and verification	During construction and prior to occupancy	611.1.2.2 and through reference to IECC
c. Mechanical system manuals - construction documents to require O&M manual	X	Verification of construction documents	Plan review	611.1.5.2
Mechanical systems - buildings over 5,000 square feet total building floor area				
a. Commissioning required and noted in plans and specifications	X	Verification of construction documents	Plan review	611.1
b. Documentation of required commissioning outcomes	X	Verification with the building owner	Subsequent to completion of all commissioning activities	611.1
c. Preparation and availability of a commissioning plan	X	Verification with the RDP or approved agency	Between plan review and commissioning initiation	611.1.1
d. Balance HVAC systems (both air and hydronic)	X	HVAC system installer/contractor with approved agency	After installation of HVAC systems and prior to occupancy	611.1.2
e. Functional performance testing of HVAC equipment	X	HVAC system installer/contractor with approved agency	After installation of HVAC systems and prior to occupancy	611.1.3
f. Functional performance testing of HVAC controls and control systems	X	HVAC system installer/contractor with approved agency	After installation of HVAC systems and prior to occupancy	611.1.3.2
g. Preparation of preliminary commissioning report	X	HVAC system installer/contractor with approved agency	Prior to occupancy	611.1.4
h. Acceptance of HVAC systems and equipment/system	X	Field inspection verification; RDP & building owner	Prior to occupancy or within 12 months after occupancy	611.1.4.1

verification report i.				
j. Preparation and distribution of final HVAC system completion - Documentation that construction documents require drawings, manuals, balancing reports and commissioning report be provided to the owner and that they have been provided k.	X	Field inspection verification; contractor/installer, RDP or approved agency & building owner	Prior to occupancy or within 12 months after occupancy	611.1.5
l. Building renewable energy systems (solar photovoltaic systems, wind energy systems, solar water heating, and geothermal heating systems)	X	Field inspection verification and testing with System installer/contractor and approved agency	After installation of systems and prior to occupancy or within 12 months after occupancy	610, 611.5
Chapter 6: Lighting				
Specified transformer nameplate efficiency rating	X	Field inspection	At Final inspection	608.8.1.1
Verification of lamp	X	Field inspection	At Final inspection	608.10
Verification of ballast	X	Field inspection	At Final inspection	608.10
Lighting controls				
a. Installation	X	Field inspection	At Final inspection	608.11
b. Calibration	X	System installer/contractor with approved agency	At Final inspection	611.3.3
Chapter 7: Water Resource Conservation, Quality and Efficiency				
Appliances	X	Field inspection	After installation and prior to occupancy	702.6
Hot water distribution	X	Field inspection	At Final inspection	702.8
Cooling tower performance	X	System installer/contractor with approved agency	Prior to occupancy or within 12 months after occupancy	703.7.7
Metering	X	Field inspection	At Final inspection	705.1.1
Rainwater system water quality	X	Field testing and verification; report	Prior to occupancy or within 12 months after occupancy	707.15.1
Gray water system water quality	X	Field testing and verification; report	Prior to occupancy	708.13.8
Chapter 8: Indoor Environmental Quality and Comfort				
Building construction, features, operations and maintenance facilitation				
Air-handling system access	X	Field inspection and verification; report	During construction and prior to occupancy	802.2
Air-handling system filters	X	Field inspection and verification; report	During construction and prior to occupancy	802.3
Specific indoor air quality & pollutant control measures				

Listing, installation and venting of fireplaces and combustion appliances	X	Field inspection and verification; report	During construction and prior to occupancy	804.1
Daylighting	X	Field inspection and verification; report	With permit submittal; field inspection; report prior to occupancy	808.1
Appendix A: Project Electives				
Project electives chosen from Appendix A implemented into the design	X	Inspection and verification with the RDP or approved agency	Prior to occupancy or within 12 months after occupancy	Appendix A

RDP = Registered Design Professional in responsible charge (owner authorized agent)

Approved Agency = Registered Design Professional in responsible charge, Professional Engineers independent from the design, Professional Commissioning Agency, or any combination thereof.

Section 4-07-113 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 1001.4 EXISTING MATERIALS, ASSEMBLIES, CONFIGURATIONS AND SYSTEMS

1001.4 Existing materials, assemblies, configurations and systems. Materials, assemblies, configurations and systems already in use that conform to the requirements or approvals in effect at the time of their erection or installation shall be permitted to remain in use.

Section 4-07-114 IGCC GREEN CONSTRUCTION CODE AMENDMENT, ADD SECTION 1001.5 NEW AND REPLACEMENT MATERIALS, ASSEMBLIES, CONFIGURATIONS AND SYSTEMS

1001.5 New and replacement materials, assemblies, configurations and systems. Except as otherwise required or permitted by this code, materials, assemblies, configurations and systems permitted by the applicable code for new construction shall be used. Like materials shall be permitted for repairs and alterations provided no hazard to the environment, life, health or property is created. Hazardous materials shall not be used where the code for new construction would not permit their use in a building of similar occupancy, purpose and location.

Section 4-07-115 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 1006.1 DECONSTRUCTION AND DEMOLITION MATERIAL AND WASTE MANAGEMENT PLAN

1006.1 Deconstruction and demolition material and waste management plan. Where buildings, structures or portions thereof are deconstructed or demolished, a minimum of 35 percent of materials shall be diverted from landfills. A construction material and waste management plan shall be developed that is in accordance with Section 503.1, that includes procedures for deconstruction, and that documents the total materials in buildings, structures and portions thereof to be deconstructed or demolished and the materials to be diverted.

Section 4-07-116 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 1101.4.1 EXISTING MATERIALS, ASSEMBLIES, CONFIGURATIONS AND SYSTEMS

1101.4.1 Existing materials, assemblies, configurations and systems. Materials and systems already in use on a building site in compliance with the requirements or approvals in effect at the time of their installation shall be permitted to remain in use.

Existing buildings and site improvements located within or located closer to protected areas than permitted by Section 402.1 but that are in compliance with the requirements or approvals in effect at the time of their installation shall be permitted to remain in use.

Section 4-07-117 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 1103.2 CHANGES TO HARDSCAPES AND SURFACE VEHICLE PARKING

1103.2 Changes to hardscapes and surface vehicle parking. Where existing hardscapes are altered, the alterations shall comply with the provisions of this code, Boise City Development Code 11-07-05 and the City of Boise Stormwater Management and Discharge Control ordinance.

Exceptions:

1. Existing hardscapes and vegetation are permitted to be replaced with materials shown in previously approved construction documents as allowed by Boise City Development Code 11-07-05.
2. Where existing vehicle surface parking lots are altered without changing parking space configuration or increasing the number of parking spaces, the altered parking lot shall not be required to comply with Section 407.4.

Section 4-07-118 IGCC GREEN CONSTRUCTION CODE AMENDMENT, SECTION 1104.2 BUILDING SITE IMPROVEMENTS

1104.2 Building site improvements. Where a change in occupancy results in an increase in the occupant load of the building, bicycle parking shall comply with the following:

1. Short-term bicycle parking spaces shall be provided in accordance with Section 407.3 equivalent to a new building of the new occupancy.
2. Where the existing building and building site have parking for motorized vehicles, long-term bicycle parking shall be provided in accordance with Section 407.3 equivalent to a new building of the new occupancy.

Section 4-07-119 IGCC GREEN CONSTRUCTION CODE AMENDMENT, CHAPTER 12 REFERENCED STANDARDS

The following referenced standard shall be amended as follows:

ICC-700-2012 National Green Building Standard 101.3.1, 302.1, Table 302.1

Section 4-07-120 IGCC GREEN CONSTRUCTION CODE AMENDMENT, APPENDIX A SECTION A102.2 REQUIRED NUMBER OF AND SELECTION OF PROJECT ELECTIVES

A102.2 Required number of and selection of project electives. Each project constructed in the jurisdiction shall be required to comply with a minimum of three (3) electives from not less than two of the categorized tables noted as Tables A104, A105, A106, A107 and A108. Electives shall be selected by the owner from the applicable tables chosen. Selected project electives shall be applied as mandatory requirements for the project. Selected project electives shall be communicated to the code official by means of checking the appropriate boxes in the tables and providing a copy of the tables, or by inclusion of a list of selected project electives, with the construction documents.

Section 4-07-121 IGCC GREEN CONSTRUCTION CODE AMENDMENT, APPENDIX A TABLE A104 SITE PROJECT ELECTIVES

The following additional elective option shall be added to Table A104:

**TABLE A104
SITE PROJECT ELECTIVES**

SECTION	DESCRIPTION	MINIMUM NUMBER OF ELECTIVES REQUIRED AND ELECTIVES SELECTED	
409	Site lighting	<input type="checkbox"/> Yes	<input type="checkbox"/> No

Section 4-07-122 IGCC GREEN CONSTRUCTION CODE AMENDMENT, APPENDIX A SECTION A104.7 CHANGING AND SHOWER FACILITIES PROJECT ELECTIVE

A104.7 Changing and shower facilities project elective. Where a new building requires less than 10 bicycle parking spaces per Boise City Development Code 11-07-03, providing changing and shower facilities in accordance with Section 407.2 shall be recognized as a project elective.

Section 4-07-123 IGCC GREEN CONSTRUCTION CODE AMENDMENT, APPENDIX A SECTION A104.8 LONG-TERM BICYCLE PARKING AND STORAGE PROJECT ELECTIVE INCLUDING DELETING ITEM 3

A104.8 Long-term bicycle parking and storage project elective. The development of a new building and associated site improvements where additional long-term bicycle parking is provided in accordance with all of the following shall be recognized as a single project elective:

1. Provide long-term bicycle parking that is twice the number of parking spaces required by Boise City Development Code 11-07-03; and
2. Provide spaces in accordance with Section 407.3.2.

Section 4-07-124 IGCC GREEN CONSTRUCTION CODE AMENDMENT, APPENDIX A TABLE A106 ENERGY CONSERVATION AND EFFICIENCY

The following additional elective option shall be added to Table A106:

**TABLE A106
ENERGY CONSERVATION AND EFFICIENCY**

SECTION	DESCRIPTION	MINIMUM NUMBER OF ELECTIVES REQUIRED AND ELECTIVES SELECTED	
610	Building renewable energy systems (choose method) <input type="checkbox"/> Solar photovoltaic systems (610.2) <input type="checkbox"/> Wind energy systems (610.3) <input type="checkbox"/> Solar water heating equipment (610.4) <input type="checkbox"/> Geothermal heating systems (610.5)	<input type="checkbox"/> Yes	<input type="checkbox"/> No

Section 4-07-125 IGCC GREEN CONSTRUCTION CODE AMENDMENT, APPENDIX A SECTION A107.3, ALTERNATE ONSITE NONPOTABLE WATER FOR OUTDOOR HOSE CONNECTIONS PROJECT ELECTIVE IS DELETED

Section 4-07-126 IGCC GREEN CONSTRUCTION CODE AMENDMENT, APPENDIX A SECTION A107.3.1, SIGNAGE IS DELETED

Section 4-07-127 IGCC GREEN CONSTRUCTION CODE AMENDMENT, APPENDIX A TABLE A107 WATER RESOURCE CONSERVATION AND EFFICIENCY, THE ROW WITH SECTION A107.3 AND A DESCRIPTION OF ALTERNATE ONSITE NONPOTABLE WATER FOR OUTDOOR HOSE CONNECTIONS IS DELETED FROM THE TABLE.

Section 4-07-128 IGCC GREEN CONSTRUCTION CODE AMENDMENT, APPENDIX A SECTION A107.4 ALTERNATE ONSITE NONPOTABLE WATER FOR PLUMBING FIXTURE FLUSHING WATER PROJECT ELECTIVE

A107.4 Alternate onsite nonpotable water for plumbing fixture flushing water project elective. Where projects are intended to qualify for an alternate onsite nonpotable water for plumbing fixture flushing project elective in accordance with Section A107.4, nonpotable water shall be used for flushing water closets and urinals. The design of any water reuse system shall be in accordance with Section 701.1.2 of this code.

Section 4-07-129 IGCC GREEN CONSTRUCTION CODE AMENDMENT, APPENDIX A SECTION A107.5.2 SOURCE VOLUME INDICATION

A107.5.2 Source volume indication. All buildings utilizing reclaimed water supply for the purpose of building fire protection shall be equipped with a device that indicates the volume of nonpotable water contained in the collection reservoir. The indicator shall be approved and shall be in compliance with NFPA 72.

Section 4-07-130 IGCC GREEN CONSTRUCTION CODE AMENDMENT, APPENDIX A SECTION A107.5.3 QUALITY OF WATER USED FOR FIRE SUPPRESSION

A107.5.3 Quality of water used for fire suppression. The required quality and treatment of the nonpotable water stored and used for fire suppression shall be determined by the authority(s) having jurisdiction. Re-cycled or reclaimed water used in a sprinkler system shall include an annual water analysis to determine if contaminants exist in the reclaimed water and that these contaminants will not adversely affect fire sprinkler system components or the expected reasonable life of the fire sprinkler system. A copy of the completed water analysis shall be maintained on site by the building owner and available upon request by the fire code official.

Section 4-07-131 IGCC GREEN CONSTRUCTION CODE AMENDMENT, APPENDIX A SECTION A107.7 ALTERNATE ONSITE NONPOTABLE WATER FOR INDUSTRIAL PROCESS MAKEUP WATER PROJECT ELECTIVE

A107.7 Alternate onsite nonpotable water for industrial process makeup water project elective. Where projects are intended to qualify for an alternate onsite nonpotable water for industrial process makeup water project elective in accordance with Section A107.7, industrial processes requiring makeup water shall utilize nonpotable water except where the process requires potable water for proper functioning. The design of any water reuse system shall be in accordance with Section 701.1.2 of this code.

Section 4-07-132 IGCC GREEN CONSTRUCTION CODE AMENDMENT, APPENDIX A SECTION A107.8 ALTERNATE ONSITE NONPOTABLE WATER FOR COOLING TOWER MAKEUP WATER PROJECT ELECTIVE

A107.8 Alternate onsite nonpotable water for cooling tower makeup water project elective. Where projects are intended to qualify for an alternate onsite nonpotable water for cooling tower makeup water project elective in accordance with Section A107.7, nonpotable water shall be utilized for cooling tower makeup water in accordance with the requirements of Section 706.3. The design of any water reuse system shall be in accordance with Section 701.1.2 of this code.

(Ord-33-15 Repealing and Adopting; Ord. 6565, Amended, 05/15/2007; Ord. 2645; 3-23-64; Renumbered Subsections 01-04-93)