DOCUMENT ADDENDA

For the documents titled: **LEED Reference Guide for Green Building Design and Construction**, **2009 Edition** *(second edition, updated June 2010)*

Note: This document contains addenda to the reference guide listed above and will be published on a quarterly basis beginning in April 2010. For more information, visit the USGBC website http://www.usgbc.org/addenda.

Page	Location	Credit	Credit Title	Issue	Post Date
xiv*	Minimum Program Requirements	n/a	n/a	Replace the last sentence of the first paragraph with "To view the MPRs and the MPR Supplemental Guidance, visit the LEED Resources and Tools section of www.usgbc.org/projecttools."	11/3/2010
xiv	Above Registration section	n/a	n/a	Following the Minimum Program Requirements section, insert the following section: **Multiple Buildings and On-Campus Projects** The 2010 LEED Application Guide for Multiple Buildings and On-Campus Building Projects (available at www.usgbc.org/campusguidance) provides guidance on applying the LEED rating systems to multiple-building and on-campus projects that are on a shared site under the control of a single entity; for example, a corporate or educational campus or government installation. The 2010 LEED Application Guide for Multiple Buildings and On-Campus Building Projects provides guidance for the certification of projects under the Design and Construction and Interior Design and Construction rating systems as well as the LEED for Existing Buildings: Operations & Maintenance rating system. The guidance does not create a new rating system. Users may follow this guidance and apply it to existing rating system requirements for projects on a campus.	11/3/2010
xvi	Registration	n/a	n/a	In the fifth line of the paragraph, replace "errata" with "addenda"	11/3/2010

Page	Location	Credit	Credit Title	Issue	Post Date
xvi	Credit Interpretation Requests and Rulings	n/a	n/a	Replace the section with the following: In some cases, a LEED project team may encounter challenges when interpreting the requirements of a Minimum Program Requirement (MPR), prerequisite or credit for their project because a specific issue, situation, or a conflict is not addressed by available materials. To address such issues, two processes have been established for each LEED rating system: Project Credit Interpretation Rulings (Project CIR) and LEED Interpretations. See the USGBC and GBCI websites for more information, at www.usgb.org and www.gbci.org. Project CIRs and LEED Interpretations must be submitted online. Provide a brief but clear description of the challenge encountered, refer to the MPR, prerequisite or credit information found in the rating system, reference guide, or supporting documentation and emphasize the intent of the MPR, prerequisite or credit. If possible, the project team should offer potential solutions to the problem or a proposed interpretation. All communications related to Project CIRs and LEED Interpretations will be in electronic format.	5/9/2011
xviii	IV. LEED-ONLINE DOCUMENTATION REQUIREMENTS	n/a	n/a	Below the section "Credit Substitution," add the following section: **Units of Measurement Guidance** In order to facilitate certification review by U.S.-based reviewers, it is necessary to submit pertinent aspects of review-related documentation in English and convert units to U.S. Standard (i.e. Imperial) units of measure, unless noted otherwise in the credit or prerequisite description. It is not necessary to translate every aspect of every construction document into English and imperial units, but only those necessary for evaluation of LEED criteria. The project team should be prepared to provide additional translation(s) if requested by the reviewer in their preliminary review comments.	11/3/2010
xxi	LEED CSv2009	n/a	n/a	Change the "D" to "C" for both EAc5.1 and EAc2.	8/1/2011
xxv	Sustainable Sites	n/a	n/a	Below SS Credit 7, add the following line: SS Credit 8 Light Pollution Reduction (Core & Shell only)	2/2/2011
xxv	Energy and Atmosphere	n/a	n/a	Below EA Credit 3, add the following line: EA Credit 5 Measurement and Verification	2/2/2011
xxv	Indoor Environmental Quality	n/a	n/a	Below IEQ Credit 3, add the following line: IEQ Credit 4 Low Emitting Materials (Core & Shell only)	2/2/2011

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xxvii	X. TOOLS FOR REGISTERED PROJECTS	n/a	n/a	In the third line of the paragraph, replace “errata” with “addenda”	11/3/2010
xxvii	X. TOOLS FOR REGISTERED PROJECTS	n/a	n/a	Make the first sentence of the second paragraph bold so it becomes “**Declarant Definitions and Other Definitions.**”	11/3/2010
7	4. Implementation	SSp1	Construction Activity Pollution Prevention	At the end of the 3rd paragraph, add the following text: For major renovation projects whose scope of work includes only interior renovation, identify areas of potential pollution from construction activities including construction staging and access, and develop a plan that addresses these areas. Potential pollution could include pollution of the site or air with dust and particulate matter.	11/3/2010
35*	Requirements	SSc3	Brownfield Redevelopment	Below this section, add the following text as a new section: Projects where asbestos is found and remediated may also earn this credit. Testing should be done in accordance with EPA Reg 40CFR part 763, when applicable.	11/3/2010
38	7. Documentation Guidance	SSc3	Brownfield Redevelopment	Below the second bullet, add a third bullet with the following text: ▪ For projects where asbestos is found, prepare executive summary-level content from the investigation’s report explaining the extent of the contamination and required action as well as documentation indicating an acceptable level of remediation was achieved based on an acceptable standard, such as RCRA or NESHAPs.	11/3/2010
39	Below “Preliminary Remediation…” resource	SSc3	Brownfield Redevelopment	Add the following resource: **U.S. EPA, Asbestos** http://www.epa.gov/asbestos/index.html This website provides information on the health effects of asbestos, where it is commonly found, and the laws and regulations governing testing of sites containing asbestos.	11/3/2010
62*	OPTION 3	SSc4.3	Alternative Transportation – Low-Emitting and Fuel-Efficient Vehicles	Switch the footnote numbers so the text becomes Provide low-emitting and fuel-efficient vehicles[2] for 3% of full-time equivalent (FTE) occupants. Provide preferred parking[1] for these vehicles	7/19/2010

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68	12. Resources	SSc4.3	Alternative Transportation - Low-Emitting and Fuel-Efficient Vehicles	Change the California Air Resources Board, Certified Vehicles List website from "http://www.arb.ca.gov/msprog/ccvl/ccvl.htm" to "http://www.arb.ca.gov/".	8/1/2011
77*	CASE 1	SSc5.1	Site Development – Protect or Restore Habitat	Revise the first bulleted item to say "40 feet beyond the building perimeter and parking garages"	8/1/2011
77*	Requirements	SSc5.1	Site Development – Protect or Restore Habitat	Below this section, insert the following text: Projects with limited landscape opportunities may also donate offsite land in perpetuity, equal to 60% of the previously developed area (including the building footprint), to a land trust within the same EPA Level III Ecoregion identified for the project site. The land trust must adhere to the Land Trust Alliance 'Land Trust Standards and Practices' 2004 Revision.	11/3/2010
80	6. Calculations	SSc5.1	Site Development – Protect or Restore Habitat	Replace the text under "CASE 1" with the following: There are no calculations required for this credit, unless a project cannot limit site disturbance for every parameter. In such a case, an average is acceptable, as long as 3 of the 4 disturbance limits are met. Project teams should calculate the amount of site disturbance allowed under the requirements for greenfield sites and then the amount of actual site disturbance. The actual should be less than the allowable.	11/3/2010
81	Figure 2	SSc5.1	Site Development – Protect or Restore Habitat	Replace the text to the right of the white square with, "Non-vegetated, pedestrian oriented hardscape & non-native vegetation areas, to be excluded from restored area"	5/9/2011
84	13. Definitions	SSc5.1	Site Development – Protect or Restore Habitat	Revise the text for "Building footprint" to be "**Building footprint** is the area on a project site used by the building structure, defined by the perimeter of the building plan. Parking lots, parking garages, landscapes, and other nonbuilding facilities are not included in the building footprint."	8/1/2011
110	3. Summary of Referenced Standards	SSc7.1	Heat Island Effect, Non-Roof	Make the following text bold, "ASTM E408–71(1996)e1, Standard Test Methods for Total Normal Emittance of Surfaces Using Inspection-Meter Techniques".	8/1/2011
112	Table 1	SSc7.1	Heat Island Effect, Non-Roof	Replace SRI for "Typical new gray concrete" with 38	5/9/2011

Page	Location	Credit	Credit Title	Issue	Post Date
119*	OPTION 1	SSc7.2	Heat Island Effect-Roof	Below equation, add the text and equation: Alternatively, the following equation may be used to calculate compliance: (see image: https://www.usgbc.org/ShowFile.aspx?DocumentID=9756)	8/1/2011
119*	OPTION 3	SSc7.2	Heat Island Effect-Roof	Below equation, add the text and equation: Alternatively, a weighted average approach may be used to calculate compliance for multiple materials: (see image: https://www.usgbc.org/ShowFile.aspx?DocumentID=9757)	8/1/2011
120	3. Summary of Referenced Standards	SSc7.2	Heat Island Effect-Roof	Make the following text bold, "ASTM E408–71(1996)e1, Standard Test Methods for Total Normal Emittance of Surfaces Using Inspection-Meter Techniques".	8/1/2011
123	STEP 2	SSc7.2	Heat Island Effect-Roof	Add "skylights" to the list of things deducted from the roof area so that the sentence reads, "Determine the area of the roof covered by mechanical equipment, solar energy panels, skylights, and other appurtenances, and deduct these areas from the total roof surface area."	8/1/2011
124	9. Exemplary Performance	SSc7.2	Heat Island Effect-Roof	Replace the term "photovoltaic panels" with "solar energy panels" and add "other appurtenances" to the list of things deducted from the roof area so that the sentence reads "Projects may earn an Innovation in Design (ID) credit for exemplary performance by demonstrating that 100% of the project's roof area (excluding any mechanical equipment, solar energy panels, skylights, and other appurtenances) consists of a vegetated roof system."	8/1/2011
126	13. Definitions	SSc7.2	Heat Island Effect-Roof	In alphabetical order, add the term "An **appurtenance** is any built-in, nonstructural portion of a roof system, such as skylights, ventilators, mechanical equipment, partitions, and solar energy panels."	8/1/2011
126	13. Definitions	SSc7.2	Heat Island Effect-Roof	In alphabetical order, add the term, "**Roof area** is the area of the uppermost surface of the building which covers enclosed Gross Floor Area, as measured when projected onto a flat, horizontal surface (i.e. as seen in Roof Plan view). 'Roofs', or portions of roofs, covering unenclosed areas (e.g. roofs over porches and open covered parking structures) are not included in the areas used to evaluate compliance with SSc7.2, though they may be applicable to SSc7.1."	8/1/2011

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134	OPTION 1	SSc8	Light Pollution Reduction	Replace the entire first paragraph with the following, "All nonemergency interior lighting fixtures with a direct line of sight to any openings in the envelope must be automatically controlled and programmed to turn off or have their input power reduced by at least 50% between 11 p.m. and 5 a.m. Controls can be automatic sweep timers, occupancy sensors, or programmed master lighting control panels. The design can also include manual or occupancy based override capabilities that enable lights to be turned on after hours."	8/1/2011
135	First paragraph (begins with “of light pollution.”)	SSc8	Light Pollution Reduction	At the end of the paragraph, add the sentence ““Flag lighting is not exempt from the requirements of this credit.”	11/3/2010
141	9. Exemplary Performance	SSc8	Light Pollution Reduction	Replace text with the following: **NC & Schools** This credit is not eligible for exemplary performance under the Innovation and Design section. **CS** Projects that require and enforce installing automatic controls within 100% of the tenant space are eligible for exemplary performance under the Innovation in Design section.	2/2/2011
142	Definitions	SSc8	Light Pollution Reduction	In alphabetical order, insert the term "emergency lighting" with the text "Emergency lighting as defined by the Illuminating Engineering Society of North America is lighting designed to supply illumination essential to the safety of life and property in the event of failure of the normal supply.”	5/9/2011
145	Core & Shell Sustainable Design and Construction Features	SSc9	Tenant Design and Construction Guidelines	From the term “Lighting power” to “Heating, ventilation, and air-conditioning (HVAC),” indent the text to the left	11/3/2010
153*	Requirements	SSc10	SSc10: Joint Use of Facilities	Revise the text to include "types of" in the following instances: (1) Option 1, first paragraph: "…3 of the following types of spaces included…" (2) Option 2, first paragraph: "…to provide at least 2 types of dedicated-use spaces..." (3) Option 3, first paragraph: "...the following 6 types of spaces that are owned..."	8/1/2011
167	Environmental Issues	WEp1	Water Use Reduction	Remove both instances of “potable” in the section	7/19/2010

Page	Location	Credit	Credit Title	Issue	Post Date
168	4. Implementation	WEp1	Water Use Reduction	Replace the first three paragraphs with the following: **(see below text)**	7/19/2010
	(text relating to above issue) Effective ways to reduce water use include installing flow restrictors and/or reduced flow aerators on lavatory, sink, and shower fixtures; installing and maintaining metering faucets; installing high-efficiency flush fixtures, such as high-efficiency water closets and urinals; and collecting rainwater. In certain cases, faucets with low-flow rates are not appropriate. For example, in kitchen sinks, faucets are used to fill pots and buckets. Using a low-flow rate for tasks where the volume of water is predetermined does not save water and will likely cause user dissatisfaction and inefficiencies. Consider alternative strategies to reduce water use, such as installing special-use pot fillers and faucets or foot pedal–operated faucets. WaterSense, a partnership program sponsored by EPA, helps consumers identify the most water-efficient products and programs. WaterSense-labeled products exceed the requirements of the Uniform Plumbing Code and the International Plumbing Code for some fixtures and fittings. WaterSense products and other high-efficiency plumbing fixtures, fittings, and appliances can be installed in the same way as conventional EPAct plumbing fixtures and fittings, as well as Energy Star appliances.				
168	4. Implementation	WEp1	Water Use Reduction	Remove the paragraph beginning with, "Although water-efficient dishwashers…"	5/9/2011
168	4. Implementation	WEp1	Water Use Reduction	In the first line of the fifth paragraph, replace the word “conservation” with “efficiency” so the text becomes “…analyze the water efficiency options available…”	7/19/2010
169	Table 1	WEp1	Water Use Reduction	In the fourth row of the table in the “EPA WaterSense Standards” column, replace "1.5 - 2.0^b" with “2.0^b”	7/19/2010
169	Table 1	WEp1	Water Use Reduction	In footnote “b,” replace "2.0 gmp" with "2.0 gpm"	7/19/2010
170	6. Calculations	WEp1	Water Use Reduction	After the section's first paragraph, insert the following: For additions to existing buildings, only the fixtures within the project scope must be counted for the prerequisite. To earn points under WE credit 3, all fixtures necessary to meet the needs of the addition occupants must be included, even if they are located within the existing building.	5/9/2011
171	Table 2a	WEp1	Water Use Reduction	In the sixth row (“Lavatory Faucet”), replace the duration (sec) of 15 with 30; replace the related note below table with “Default duration for the metering type / autocontrol faucet is 15 seconds for the baseline and 12 seconds for the design case."	2/2/2011

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172	Schools box	WEp1	Water Use Reduction	(1) In the "Calculating Occupancy" section, add "e. Part-time students" (2) In the paragraph immediately below that, before the last sentence, add "Part-time students are calculated in the same manner as part-time staff."	5/9/2011
174	Design Case Water Consumption	WEp1	Water Use Reduction	In the second line of the paragraph, remove the text “and subtracting any nonpotable water supply”	7/19/2010
174	Table 4	WEp1	Water Use Reduction	In the fifth row of the table in the column “Flow rate,” replace “1.8 gpm” with “"≤ 2.2 gpm”	7/19/2010
174	Table 4	WEp1	Water Use Reduction	In the seventh row of the table in the “Flow Fixture” column, replace "Low-flow shower" with "WaterSense shower”	7/19/2010
174	Table 4	WEp1	Water Use Reduction	In the seventh row of the table in the “Flow Rate” column, replace "1.8 gpm" with "≤ 2.0 gpm”	7/19/2010
174	Paragraph below Table 4	WEp1	Water Use Reduction	Replace the first sentence with "Private or private use applies to plumbing fixtures in residences, apartments, and dormitories, to private (non-public) bathrooms in transient lodging facilities (hotels and motels), and to private bathrooms in hospitals and nursing facilities."	7/19/2010

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174	Eligible Fixtures	WEp1	Water Use Reduction	Replace the section text with the following: This prerequisite is limited to savings generated by the following water using fixtures and fixture fittings as applicable to the project: water closets, urinals, lavatory faucets, showers, kitchen sink faucets and pre-rinse spray valves, as shown in Table 1. The "Kitchen sinks" category encompasses all sinks in public or private buildings that are used with patterns and purposes similar to a sink in a residential kitchen; break room sinks would be included. However professional grade / commercial faucets such as those used in a commercial kitchen would not be included. The "Public lavatory faucets" and "Private lavatory faucets" categories encompass all sinks used primarily for hand-washing regardless of location. Faucets whose usage patterns and flow rates are regulated for medical or industrial purposes (e.g. laboratory sinks) and do not fall under the definition of private or public use are not included. Faucets used exclusively for filling operations (e.g. pot-filler) can be excluded. All other fixtures and fixtures fittings must be included in the calculations unless there are special circumstances that justify excluding them.	2/2/2011
175	Figure 1	WEp1	Water Use Reduction	See revised image: https://www.usgbc.org/ShowFile.aspx?DocumentID=9761	8/1/2011
176	12. Resources	WEp1	Water Use Reduction	In alphabetical order, insert the following text: **Alliance for Water Efficiency** http://www.allianceforwaterefficiency.org/ The Alliance for Water Efficiency provides information and assistance on water conservation efforts.	7/19/2010
176	12. Resources	WEp1	Water Use Reduction	Remove the following text: **Fine Homebuilding Choosing a Toilet** http://www.taunton.com/finehomebuilding/pages/h00042.asp This article includes several varieties of water-efficient toilets.	7/19/2010
176	12. Resources	WEp1	Water Use Reduction	In the resource "Rocky Mountain Institute, Water," replace the text below the resource header with the following: http://www.rmi.org/rmi/pid172 This portion of RMI's website is devoted to water resource efficiency.	7/19/2010

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176	12. Resources	WEp1	Water Use Reduction	Remove the following text: **U.S. EPA, Water Use Efficiency Program** http://www.epa.gov/owm/water-efficiency This website provides an overview of EPA's Water Use Efficiency Program and information about using water more efficiently.	7/19/2010
177	12. Resources	WEp1	Water Use Reduction	Replace the resource "Water Closet Performance Testing," with the following: **Water Studies** http://www.ebmud.com/resource-center/publications/studies The site provides a variety of studies related to water.	7/19/2010
179*	PATH 2	WEc1	Water Efficient Landscaping	Replace the second sentence of the paragraph with "Temporary irrigation systems used for plant establishment are allowed only if removed within a period not to exceed 18 months of installation."	7/19/2010
179*	Footnote	WEc1	Water Efficient Landscaping	Replace the footnote text with the following: If the percent reduction of potable water is 100% AND the percent reduction of total water is equal to or greater than 50%, then Option 2 is earned, for a total of 4 points.	5/9/2011
183	Second paragraph on page (begins with "Hose bibs")	WEc1	Water Efficient Landscaping	In the second line, replace "year" with "18 months" so the text becomes "…during the first 18 months of building…"	7/19/2010
183	Second paragraph on page (begins with "Hose bibs")	WEc1	Water Efficient Landscaping	In the fifth line of the paragraph, replace "1 year" with "18 months" so the text becomes "…a period of 18 months depending on…"	7/19/2010
183	Technologies	WEc1	Water Efficient Landscaping	In the paragraph beginning with "Using groundwater…", replace the last sentence with the following: Additionally the credit can be met when landscape irrigation is provided by raw water (excluding naturally occurring surface bodies of water, streams, or rivers, and ground water) that would otherwise be treated specifically for nonpotable uses. Only ponds designed solely for the purposes of stormwater retention or detention can be used for this credit.	2/2/2011
184	SCHOOLS box	WEc1	Water Efficient Landscaping	Replace the second sentence with "However, if such areas are included, they must be included in all other applicable Water Efficiency credit calculations (unless otherwise noted)."	7/19/2010

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185	STEP 1	WEc1	Water Efficient Landscaping	At the end of the first paragraph, add the text “Any area that is being improved upon (for example site area that is being restored to its natural state) must be included in the landscape area.”	7/19/2010
186	Table 2	WEc1	Water Efficient Landscaping	Below the table, replace the first sentence of the paragraph with the following: Determine, if applicable, the controller efficiency (CE), the percentage reduction in water use from any weather-based controllers or moisture sensor-based systems, not to exceed 30% for the peak month of July.	2/2/2011
186	Equation 3	WEc1	Water Efficient Landscaping	Replace “CE” with “(1 – CE)”	2/2/2011
188	EXAMPLE 1	WEc1	Water Efficient Landscaping	In the first line of the first paragraph, replace the first sentence with “An office building in Austin, Texas, has 6,000 square feet of landscape area.”	7/19/2010
188	EXAMPLE 1	WEc1	Water Efficient Landscaping	In the first line of the second paragraph, replace the first sentence with “The baseline case uses the same reference ETo and total landscape area.”	7/19/2010
191	13. Definitions	WEc1	Water Efficient Landscaping	Insert the term “Landscape area” in alphabetical order with the accompanying text "The **landscape area** of the site is the total site area less the building footprint, paved surfaces, water bodies, areas being left in a natural state, and patios."	7/19/2010
211	13. Definitions	WEc4	Process Water Use Reduction	In alphabetical order, insert the term "once-through (single-pass) cooling a system" with the text "A once-through (single pass) cooling system is one which water from any source is used to transfer heat from equipment or processes and then discharged.	5/9/2011
207*	Requirements	WEc4	Process Water Use Reduction	In the first line of the third bullet item, replace “At least 4 process items” with "All appliances within at least 4 equipment types"	7/19/2010
208	4. Implementation	WEc4	Process Water Use Reduction	In the beginning of the first line of the first paragraph, insert the text "With the exception of prerinse spray valves”	7/19/2010
211	13. Definitions	WEc4	Process Water Use Reduction	In alphabetical order, insert the term "once-through (single-pass) cooling a system" with the text "A once-through (single pass) cooling system is one which water from any source is used to transfer heat from equipment or processes and then discharged.	5/9/2011

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239*	OPTION 3	EAp2	Minimum Energy Performance	Remove the third and fourth bullet of the section: • Office, school, public assembly, and retail projects less than 100,000 square feet must comply with Section 1 and Section 2 of the Core Performance Guide. • Other project types less than 100,000 square feet implement the basic requirements of the Core Performance Guide.	2/2/2011
251*	Requirements	EAp3	Fundamental Refrigerant Management	Add the following text as a second paragraph in the section: Existing small HVAC units (defined as containing less than 0.5 pounds of refrigerant) and other equipment, such as standard refrigerators, small water coolers and any other equipment that contains less than 0.5 pounds of refrigerant, are not considered part of the base building system and are not subject to the requirements of this prerequisite.	2/2/2011
252	4. Implementation	EAp3	Fundamental Refrigerant Management	After the first sentence, add, "HCFCs are not part of this prerequisite."	5/9/2011
277	First paragraph on page (begins with “Separate point”)	EAc1	Optimize Energy Performance	At the end of paragraph, add the following text: For projects that are a combination of renovated and new construction, use the following equation to determine minimum energy cost savings percentage for each point threshold for each line of the table: Target Percent = (Existing SF/Total SF)*Existing Percent + (New SF/Total SF)*New Percent Or $\text{Target Percent} = \left(\frac{\text{Existing SF}}{\text{Total SF}} \times \text{Existing Percent}\right) + \left(\frac{\text{New SF}}{\text{Total SF}} \times \text{New Percent}\right)$	2/2/2011
293	Retention of Renewable Energy Environmental Attributes	EAc2	On-Site Renewable Energy	In the first bullet, change "200%" to "100%", so that it reads, "RECs equal to 100% of the system's…"	5/9/2011
293	Retention of Renewable Energy Environmental Attributes	EAc2	On-Site Renewable Energy	Remove the text from “The rationale for the 1-for-2 ratio…” through “This allows green building projects to capture the value of RECs created by on-site renewable while reducing next CO2.”	11/3/2010

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295	12. Resources	EAc6	Green Power	Add the following resource: Low Impact Hydropower Institute http://lowimpacthydro.org The Low Impact Hydropower Institute is a non-profit organization and certification body that establishes criteria against which to judge the environmental impacts of hydropower projects in the United States.	5/9/2011
305*	Requirements	EAc4	Enhanced Refrigerant Management	Update equation on bottom of page to read: $\sum \frac{(LCGWP + LCODP \times 105) \times Qunit}{Qtotal} \leq 100$	5/9/2011
310	6. Calculations	EAc4	Enhanced Refrigerant Management	In the first bulleted item, replace the text with "Refrigerant charge (Rc) in pounds of refrigerant per ton of Gross ARI rated cooling capacity."	7/19/2010
311	Text below third box	EAc4	Enhanced Refrigerant Management	Replace the text with "If there are multiple pieces of base building HVAC&R equipment, use a weighted average of all equipment, based on Gross ARI rated cooling capacity:"	7/19/2010
311	Bottom of Calculations	EAc4	Enhanced Refrigerant Management	Replace the two bulleted items with the following: ●Qunit = Gross ARI rated cooling capacity of an individual HVAC or refrigeration unit (tons) ●Qtotal = Total Gross ARI rated cooling capacity of all HVAC or refrigeration	5/9/2011
315*	NC & Schools	EAc5	Measurement and Verification	Add the following option after OPTION 2: OR OPTION 3 (1 point) Meet MPR 6 through compliance Opttion1: Energy and Water Data Release Form. Projects must register an account in ENERGY STAR's Portfolio Manager tool and share the project file with the USGBC master account.	2/2/2011
316*	CS	EAc5.1	Measurement and Verification – Base Building	Add the following option after OPTION 2: OR OPTION 3 (1 point) Meet MPR 6 through compliance Opttion1: Energy and Water Data Release Form. Projects must register an account in ENERGY STAR's Portfolio Manager tool and share the project file with the USGBC master account.	2/2/2011

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319	3. Summary of Referenced Standards	EAc5	Measurement and Verification	In the first paragraph, replace “International Performance Measurement and Verification Protocol, Volume III, EVO 30000.1–2006, Concepts and Options for Determining Energy Savings in New Construction, effective January, 2006” with “International Performance Measurement & Verification Protocol (IPMVP) Volume III: Concepts and Options for Determining Energy Savings in New Construction, April, 2003”	7/19/2010
323	9. Exemplary Performance	EAc5	Measurement and Verification	NC, CS, and Schools projects pursuing Option 3 in addition to Options 1 or 2 are eligible for exemplary performance.	2/2/2011
324	12. Resources	EAc5	Measurement and Verification	At the end of the section, add the following resource: USGBC Building Performance Partnership www.usgbc.org/BPP USGBC’s Building Performance Partnership (BPP) engages commercial and residential LEED building owners and managers in an effort to optimize the performance of buildings through data collection, analysis and action. This partnership among USGBC and the thousands of LEED project owners will result in the population of a comprehensive green building performance database, enable standardization of reporting metrics and analytics, and establish new performance benchmarks. USGBC’s BPP participants are eligible for annual performance reports, report cards and real-time data interfaces to aid in their building performance goals. Together, USGBC and BPP participants will transform the way the world views building operations.	2/2/2011
328	4. Implementation, bullet 3	EAc6	Green Power	Add the following paragraph to the end of item 3: "The vintage of any REC purchased to meet the Green Power credit requirements must be valid according to the Green-e vintage requirements as written on the date of purchase. Project teams must affirm in writing that the purchased RECs are being claimed for use on this particular LEED Project only."	8/1/2011
337	Calculating Materials Costs to Achieve MR Credits	n/a	n/a	In the first paragraph, add the following after "…Furniture and Furnishings as long as this is done consistently across all MR credits.", "Exclude artwork, interior plants, and musical instruments."	5/9/2011
349	6. Calculations	MRc1.1	Building Reuse-Maintain Existing Walls, Floors and Roof	After the first sentence of the first paragraph, add the text "New construction additions are not included in the calculation for credit."	8/1/2011

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359	6. Calculations	MRc2	Construction Waste Management	Add the following to end of first paragraph: For commingled recycling the average annual recycling rate for a sorting facility is acceptable for recording diversion rates only when the facility's method of recording and calculating the recycling rate is regulated by a local or state government authority.	5/9/2011
380	4. Implementation	MRc5	Regional Materials	Remove the first paragraph: The point of manufacture is considered the place if final assembly of components into the building product that is furnished and installed by tradesworkers. For example, if the hardware comes from Dallas, and lumber comes from Vancouver, and the joist is assembled in Kent, Washington, then the location of the final assembly is Kent, Washington.	7/19/2010
382	Recycled Materials	MRc5	Regional Materials	Replace the paragraph with the following text: Recycled materials that satisfy the requirements of MR Credit 4 may also contribute to MR Credit 5. The extraction point for recycled materials is the location of the raw material prior to the manufacturing of the final building product. As such, the point of extraction could include a recycling facility, scrap yard, depository, stockpile, or any other location where the material was collected and packaged for market purchase before manufacturing. It is not necessary to track the origin of the raw material before it arrived at the point of extraction. The point of manufacture for recycled material products is the location of the final finished product manufacturer. However, if products are manufactured at multiple locations then all steps of the manufacturing process(s) must be within the 500 mile radius of the project site in order to qualify for MR Credit 5. In such a situation the point of manufacture should be listed as the location farthest from the project site.	7/19/2010
386	12. Resources	MRc5	Regional Materials	Insert the term “Extraction, harvest or recovery point” in alphabetical order with the accompanying text “**Extraction, harvest or recovery point** refers to the location of raw materials prior to manufacturing of the building material or product that is furnished and installed in the project building.”	7/19/2010
387*	Requirements	MRc6	Rapidly Renewable Materials	In the second line of the paragraph, replace "plants" with "agricultural products"	8/1/2011

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396	Chain-of-Custody Requirements	MRc7 (MRc6 for CS)	Certified Wood	At the end of the first paragraph, insert the following text: Entities that install an FSC-certified product on the project building/site (typically project contractors or subcontractors, but also furniture installers and the like), do not require CoC certification as long as they do not modify the product's packaging or form except as is required for installation. Contractors and sub-contractors that temporarily possess FSC-certified material prior to installation should be careful not mix or contaminate the FSC-certified material with non-FSC-certified material.	7/19/2010
397	6. Calculations	MRc7 (MRc6 for CS)	Certified Wood	Replace the first paragraph with the following: List all new wood products (not reclaimed, salvaged, or recycled) on the project and identify which components are FSC certified. The cost of all new wood products, both FSC certified and not, must be tallied. Develop a spreadsheet to calculate the amount of new wood and the amount of FSC certified wood permanently installed on the project. Wood products that are not FSC certified and those that are identified on invoices as FSC Pure and FSC Mixed Credit should be valued at 100% of the product cost unless the product is an assembly in which case only the new wood portion of the product counts for credit, see the guidance for assemblies in this credit. Wood products identified as FSC Mixed (NN)% should be valued at the indicated percentage of their cost, for example, a product identified as FSC Mixed 75% should be valued at 75% of the cost. FSC does not allow partial claims of certified products, wood products with non-controlled wood components will not earn FSC certification. The entire product must be FSC-certified, Pure, Mixed (NN)%, or Mixed Credit to contribute towards the credit threshold for MR Credit 7. For example, a product that includes multiple wood components, like a door, the entire product must be FSC certified. The door cannot be labeled, or claim, that only the door core is FSC certified.	7/19/2010

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398	Assemblies	MRc7 (MRc6 for CS)	Certified Wood	In the first sentence of the first paragraph replace, "such as windows and furniture systems that combine wood and nonwood materials" with "such as windows, doors, and some furniture that combine multiple material types, only the new wood portion can be applied toward the credit." In the first paragraph, replace the second sentence with "To determine the value of the wood component(s), calculate the amount of new wood as a percentage of the total weight or volume and the amount of FSC-certified wood as a percentage of the total weight or volume."	7/19/2010 *(updated 8/1/2011)*
435*	CASE 1	IEQc1	Outdoor Air Delivery Monitoring	Update the footnote references in the section so the text becomes the following: Monitor CO2 concentrations within all densely occupied spaces (those with a design occupant density of 25 people or more per 1,000 square feet). CO2 monitors must be between 3 and 6 feet above the floor.[1] Provide a direct outdoor airflow measurement device capable of measuring the minimum outdoor air intake flow with an accuracy of plus or minus 15% of the design minimum outdoor air rate, as defined by ASHRAE 62.1-2007 (with errata but without addenda[2]) for mechanical ventilation systems where 20% or more of the design supply airflow serves nondensely occupied spaces.	7/19/2010
435*	CASE 2	IEQc1	Outdoor Air Delivery Monitoring	At the end of the paragraph, remove the footnote "[2]"	7/19/2010
435*	Footnotes	IEQc1	Outdoor Air Delivery Monitoring	Re-number the footnotes so they become the following: [1] CO2 monitoring is required in densely occupied spaces, in addition to outdoor air intake flow measurement. [2] Project teams wishing to use ASHRAE approved addenda for the purposes of this credit may do so at their discretion. Addenda must be applied consistently across all LEED credits.	7/19/2010
435*	Footnote	IEQc1	Outdoor Air Delivery Monitoring	Remove Footnote, "CO2 monitoring is required in densely occupied spaces, in addition to outdoor air intake flow measurement."	5/9/2011

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437	Outdoor Air Flow Monitoring	IEQc1	Outdoor Air Delivery Monitoring	Replace the last two sentences of the paragraph with the following text: To satisfy the requirements of this credit, the measurement device must be capable of measuring the minimum outdoor air intake flow with an accuracy of plus or minus 15% when the system is providing the design minimum outdoor air rate. When the measurement device generates a measurement of outdoor air intake flow that is more than 10% below the design outdoor air minimum values, the monitoring system should be configured to deliver a visible or audible alert to the system operator to indicate that operational adjustments may be necessary.	11/3/2010
461*	OPTION 2. Air Testing	IEQc3.2	Construction Indoor Air Quality Management Plan – Before Occupancy	(1) In the first sentence of the paragraph, replace the text "and as additionally detailed in the LEED Reference Guide for Green Building Design and Construction, 2009 Edition" with "or the ISO method listed in the table below. Testing must be done in accordance with one standard; project teams may not mix requirements from the EPA Compendium of Methods with ISO" (2) In the table, insert two columns to the right (refer to supplementary guidance: https://www.usgbc.org/ShowFile.aspx?DocumentID=9318) (3) In the third bullet item, replace the second sentence (begins with "For each portion") with "The number of sampling locations must include the entire building and all representative situations."	5/9/2011
466	Air Quality Testing	IEQc3.2	Construction Indoor Air Quality Management Plan – Before Occupancy	In the fourth paragraph, add "and the ISO methods" after "The protocols described in the referenced publication, EPA's Compendium of Methods for the Determination of Air Pollutants in Indoor Air,"	5/9/2011

Page	Location	Credit	Credit Title	Issue	Post Date
466	Air Quality Testing	IEQc3.2	Construction Indoor Air Quality Management Plan – Before Occupancy	In the fourth paragraph, add in after "...the greatest presumed contaminant source strength", "Determine the number of ventilation systems serving the building. Then, determine if the individual floor plates served by each single ventilation system are larger or smaller than 25,000 square feet. If they are smaller, take at least one sample for every 25,000 square feet, or fraction thereof, served by a single ventilation system. If they are larger, take one sample per floor plate. For example, a 110,000 square foot building with ten 11,000 square foot floors, served by a single ventilation system, needs only five samples – one per 25,000 square feet (or fraction thereof) because each 11,000 foot floor plate is smaller than 25,000 square feet. However, a building with ten 30,000 square foot floors, also served by a single ventilation system, needs ten samples for the building because each 30,000 floor plate is larger than the 25,000 sq ft criterion." Delete, "For example" in the following sentence.	5/9/2011
466	Air Quality Testing	IEQc3.2	Construction Indoor Air Quality Management Plan – Before Occupancy	In the fourth paragraph, add in after "...at normal daily start times and at the minimum outside airflow rate.", "For projects with standardized identical construction, such as classrooms in a school or multifamily residential units, identify which rooms are identical in construction, finishes, configuration, square footage, and HVAC systems. For these scenarios, project teams can sample the identical spaces by testing one in seven."	5/9/2011
471*	Requirements table	IEQc4.1	Low-Emitting Materials – Adhesives and Sealants	In the "Sealants" section, remove the items "Nonmembrane roof, 300" and "Single-ply roof membrane, 450"	11/3/2010
471*	Requirements	IEQc4.1	Low-Emitting Materials –Adhesives and Sealants	Add footnote number 2 at the end of the first bullet, "This table excludes adhesives and sealants listed in Rule #1168 that are non-building related or are integral to the roof waterproofing system."	11/3/2010
474	Table 1	IEQc4.1	Low-Emitting Materials – Adhesives and Sealants	In the "Sealants" section, remove the items "Nonmembrane roof, 300" and "Single-ply roof membrane, 450"	11/3/2010
474	Table 1	IEQc4.1	Low-Emitting Materials – Adhesives and Sealants	Below the table, insert the note: This table excludes adhesives and sealants integral to the water-proofing system or that are not building related.	11/3/2010

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477	9. Exemplary Performance	IEQc4	Low-Emitting Materials – Adhesives and Sealants	Replace text with the following: **NC & Schools**: This credit is not eligible for exemplary performance under the Innovation and Design section. **CS**: Projects that require and enforce tenants to meet the requirements in IEQ Credit 4 (4.1, 4.2, 4.3, and 4.4) throughout the tenant space are eligible for exemplary performance under the Innovation in Design section.	2/2/2011
481*	Schools box	IEQc4.2	Low-Emitting Materials – Paints and Coatings	Replace, "installed in the building interior" with "used on the interior of the building (i.e., inside of the weatherproofing system and applied on-site)"	5/9/2011
481*	NC & CS box	IEQc4.2	Low-Emitting Materials – Paints and Coatings	Replace the text of the third bullet with the following: Clear wood finishes, floor coatings, stains, primers, sealers, and shellacs applied to interior elements must not exceed the VOC content limits established for those coating types in South Coast Air Quality Management District (SCAQMD) Rule 1113, Architectural Coatings, rules in effect on January 1, 2004.	7/19/2010
483	Table 1	IEQc4.2	Low-Emitting Materials – Paints and Coatings	In the note, delete “including water”	11/3/2010
483	Table 2	IEQc4.2	Low-Emitting Materials – Paints and Coatings	Remove Table 2. Standard VOC Limits	11/3/2010

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484	9. Exemplary Performance	IEQc4	Low-Emitting Materials – Paints and Coatings	Replace text with the following: **NC & Schools** This credit is not eligible for exemplary performance under the Innovation and Design section. **CS** Projects that require and enforce tenants to meet the requirements in IEQ Credit 4 (4.1, 4.2, 4.3, and 4.4) throughout the tenant space are eligible for exemplary performance under the Innovation in Design section.	2/2/2011
492	9. Exemplary Performance	IEQc4	Low-Emitting Materials – Flooring Systems	Replace text with the following: **NC & Schools** This credit is not eligible for exemplary performance under the Innovation and Design section. **CS** Projects that require and enforce tenants to meet the requirements in IEQ Credit 4 (4.1, 4.2, 4.3, and 4.4) throughout the tenant space are eligible for exemplary performance under the Innovation in Design section.	2/2/2011
495*	Schools box	IEQc4	Low-Emitting Materials – Composite Wood and Agrifiber Products	Add the following to the end of the section, "Wood and agrifiber products shall be treated as walls within the classroom scenario when determining compliance."	5/9/2011

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497	9. Exemplary Performance	IEQc4	Low-Emitting Materials – Composite Wood and Agrifiber Products	Replace text with the following: **NC & Schools** This credit is not eligible for exemplary performance under the Innovation and Design section. **CS** Projects that require and enforce tenants to meet the requirements in IEQ Credit 4 (4.1, 4.2, 4.3, and 4.4) throughout the tenant space are eligible for exemplary performance under the Innovation in Design section.	2/2/2011
501*	Schools box	IEQc4	Low-Emitting Materials – Furniture and Furnishings	Replace Option 1 with the following: Classroom furniture and seating must meet the emissions requirements of the GREENGUARD Children and Schools standards, with testing conducted in an independent third-party air quality testing laboratory.	5/9/2011
501*	Schools box	IEQc4	Low-Emitting Materials – Furniture and Furnishings	In Option 2, delete the following, "Calculated indoor air concentrations that are less than or equal to those listed in Table 1 for furniture systems and seating determined by a procedure based on the EPA Environmental Technology Verification (ETV) Large Chamber Test Protocol for Measuring Emissions of VOCs and Aldehydes (September 1999) testing protocol conducted in an independent air quality testing laboratory."	5/9/2011
501*	Schools box	IEQc4	Low-Emitting Materials – Furniture and Furnishings	Delete, "OR OPTION 3"	5/9/2011
501*	Schools box	IEQc4	Low-Emitting Materials – Furniture and Furnishings	Revise the language in the paragraph beginning with "Calculated indoor air concentrations..." to read, "Calculated indoor air concentrations shall be less than or equal to those established in Table 1 for classroom furniture and seating when determined by a procedure based on ANSI/BIFMA M7.1-2007and ANSI/BIFMA X7.1-2007 testing protocol, when modeled using the classroom scenario of the California Department of Health Services Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers, including 2004 Addenda, with testing conducted in an independent third-party air quality testing laboratory.	5/9/2011

Page	Location	Credit	Credit Title	Issue	Post Date
511*	NC, SCHOOLS & CS box	IEQc5	Indoor Chemical and Pollutant Source Control	Replace the third bullet item with the following text: • In mechanically ventilated buildings, each ventilation system that supplies outdoor air shall comply with the following: o Particle filters or air cleaning devices shall be provided to clean the outdoor air at any location prior to its introduction to occupied spaces. o These filters or devices shall be rated a minimum efficiency reporting value (MERV) of 13 or higher in accordance with ASHRAE Standard 52.2. o Clean air Filtration media shall be installed in all air systems after completion of construction and prior to occupancy.	7/19/2010
511*	NC, SCHOOLS & CS box	IEQc5	Indoor Chemical and Pollutant Source Control	Remove the fourth bullet item: Provide containment (i.e. a closed container for storage for off-site disposal in a regulatory compliant storage area, preferably outside the building) for appropriate disposal of hazardous liquid wastes in places where water and chemical concentrate mixing occurs (e.g., housekeeping, janitorial and science laboratories).	7/19/2010
512	Environmental Issues	IEQc5	Indoor Chemical and Pollutant Source Control	Replace the paragraph with the following: This credit recognizes projects that reduce or mitigate human contact with airborne chemicals and particles. Additional materials and energy may be required to provide entryway systems and isolated chemical-use areas.	7/19/2010
513	4. Implementation	IEQc5	Indoor Chemical and Pollutant Source Control	In the fourth line of the paragraph, remove the text "…; in addition, the storage, mixing and disposal of housekeeping liquids may adversely affect human health"	7/19/2010
513	Entryway Systems	IEQc5	Indoor Chemical and Pollutant Source Control	In the first and second paragraphs, replace both instances of "high-traffic" with "regularly used"	7/19/2010

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514	Hazardous Chemical Areas	IEQc5	Indoor Chemical and Pollutant Source Control	Remove the sixth paragraph of the section: Rooms where chemicals are mixed and disposed of should be isolated. These rooms should include sinks and/or drains in appropriate locations to ensure that chemicals are disposed of properly and are not dumped into inadequate spaces (e.g., restrooms). Local codes requiring separate drain lines must be followed.	7/19/2010
515	5. Timeline and Team	IEQc5	Indoor Chemical and Pollutant Source Control	Replace the second paragraph with the following text: During the design phase, the architect should consider the location and type of entryway systems and allow adequate space for entryway systems. During the schematic design phase, the team should confirm the locations of areas where chemicals and high-volume copy, fax, and print equipment will be used. It may be possible to locate such rooms above or adjacent to 1 another to make individual exhaust systems unnecessary and minimize exhaust ductwork. Also confirm that chemical and equipment rooms are properly isolated from adjacent spaces. The mechanical engineer should incorporate MERV 13 filters, dedicated exhaust systems; these elements will affect the fan sizing, shaft layout, and underground coordination.	7/19/2010
529	Individual Thermal Comfort	IEQc6.2	Controllability of Systems – Thermal Comfort	Add the following paragraph after the second paragraph: Individual comfort plug-in devices are acceptable for meeting the intent of this credit provided they are included in the proposed design model but not in the baseline model for EA Prerequisite 2: Minimum Energy Performance and EA Credit 1:Optimize Energy Performance	2/2/2011
545	First paragraph on page (above “Planning and Design Phase” section)	IEQc7.2	Thermal Comfort - Verification	At the end of the paragraph, add the addition text "For residential projects, the occupants have a higher level of control over the building systems and are therefore not eligible for this credit."	7/19/2010
Entire section	All	IEQc8.1	Daylights and Views - Daylight	Replace section with that of the supplementary document. https://www.usgbc.org/ShowFile.aspx?DocumentID=9376	5/9/2011
~~**549***~~	~~OPTION 1~~	~~IEQc8.1~~	~~Daylights and Views - Daylight~~	~~In the first line of the paragraph, replace “75% (NC, Schools & CS) or 90% (Schools Only) or more of all regularly occupied spaces” with “applicable spaces” so the text becomes “Demonstrate through computer simulation that the applicable spaces achieve…”~~	~~11/3/2010~~

Page	Location	Credit	Credit Title	Issue	Post Date
~~**551***~~	~~OPTION 3~~	~~IEQc8.1~~	~~Daylights and Views - Daylight~~	~~In the first paragraph, replace the first sentence with "Demonstrate through records of indoor light measurements that a minimum daylight illumination level of 25 fc has been achieved in the applicable spaces."~~	~~11/3/2010~~
~~**551***~~	~~OPTION 4~~	~~IEQc8.1~~	~~Daylights and Views - Daylight~~	~~In the first paragraph, replace the first sentence with "Any of the above calculation methods may be combined to document the minimum daylight illumination in the applicable spaces."~~	~~11/3/2010~~
567	6. Calculations	IEQc8.2	Daylight and Views-Views	In the first paragraph, replace the text "Movable furniture and partitions are included in the scope of this credit calculation. See Figure 2." with "Movable furniture and partitions are not included in the scope of this credit calculation. See Figure 2. Movable furniture and partitions are those that can moved to provide access to the view by the user without the need for tools or assistance from special trades and facilities management."	5/9/2011
570	Figure 4	IEQc8.2	Daylight and Views-Views	Change figure title to "Figure 4. Unobstructed View through Window over Low Partition."	5/9/2011
573	13. Definitions	IEQc8.2	Daylight and Views-Views	After the definition for glare, add "Movable furniture and partitions are those that can be moved to provide access to the view by the user without the need for tools or assistance from special trades and facilities management."	5/9/2011
575*	Intent	IEQc9	Enhanced Acoustical Performance	In the first line, replace "facilitates" with "facilitate"	11/3/2010
576	Summary of Referenced Standards	IEQc9	Enhanced Acoustical Performance	In the first standard (ANSI), remove "/ASHRAE"	11/3/2010
580	Bullet item at top of page	IEQc9	Enhanced Acoustical Performance	In the second line of the bulleted item, replace "45 dBA" with "40 dBA"	8/1/2011
593*	PATH 3. Pilot Credit	IDc1	Innovation in Design	In the header, change "(1 point)" to "(1 – 5 points for NC and CS, 1 - 4 points for Schools)"	2/2/2011
593*	PATH 3. Pilot Credit	IDc1	Innovation in Design	Replace the last sentence of the paragraph with "NC and CS projects may pursue up to 5 Pilot Credits total, Schools projects may pursue up to 4 Pilot Credits total."	2/2/2011
609*	Requirements	RPc1	Regional Priority	In the second paragraph, replace the last sentence with "The USGBC has prioritized credits for projects located in the U.S., Puerto Rico, the U.S. Virgin Islands, and Guam. All other international projects should check the database for eligible Regional Priority credits."	11/3/2010
613	Table 2	n/a	n/a	In the "Restaurant" row, replace the FTE of 225 with 435	5/9/2011
623	Glossary	n/a	n/a	In alphabetical order, add the term "An **appurtenance** is any built-in, nonstructural portion of a roof system, such as skylights, ventilators, mechanical equipment, partitions, and solar energy panels."	8/1/2011

Page	Location	Credit	Credit Title	Issue	Post Date
625	Glossary	n/a	n/a	Revise the text for "Building footprint" to be "**Building footprint** is the area on a project site used by the building structure, defined by the perimeter of the building plan. Parking lots, parking garages, landscapes, and other nonbuilding facilities are not included in the building footprint."	8/1/2011
628	Glossary	n/a	n/a	In alphabetical order, insert the term "**emergency lighting**" with the text "Emergency lighting as defined by the Illuminating Engineering Society of North America is lighting designed to supply illumination essential to the safety of life and property in the event of failure of the normal supply."	5/9/2011
629	Glossary	n/a	n/a	Insert the term "Extraction, harvest or recovery point" in alphabetical order with the accompanying text "**Extraction, harvest or recovery point** refers to the location of raw materials prior to manufacturing of the building material or product that is furnished and installed in the project building."	7/19/2010
631	Glossary	n/a	n/a	In alphabetical order, add the term "**Gross floor area** (based on ASHRAE definition) is the sum of the floor areas of the spaces within the building, including bas ements, mezzanine and intermediate-floored tiers, and penthouses wi th headroom height of 7.5 ft (2.2 meters) or greater. Measurements m ust be taken from the exterior 39 faces of exterior walls OR from the c enterline of walls separating buildings, OR (for LEED CI certifying spa ces) from the centerline of walls separating spaces. Excludes non-en closed (or non-enclosable) roofed-over areas such as exterior covere d walkways, porches, terraces or steps, roof overhangs, and similar f eatures. Excludes air shafts, pipe trenches, and chimneys. Excludes f loor area dedicated to the parking and circulation of motor vehicles. (Note that while excluded features may not be part of the gross floor area, and therefore technically not a part of the LEED project building, they may still be required to be a part of the overall LEED project and subject to MPRs, prerequisites, and credits.)	8/1/2011
633	Glossary, Landscape area	n/a	n/a	Replace the term description with the text "The **landscape area** of the site is the total site area less the building footprint, paved surfaces, water bodies, areas being left in a natural state, and patios."	7/19/2010
635	Glossary	n/a	n/a	In alphabetical order, insert the term "**movable furniture and partitions**" with the text "Movable furniture and partitions are those that can be moved to provide access to the view by the user without the need for tools or assistance from special trades and facilities management."	5/9/201

Page	Location	Credit	Credit Title	Issue	Post Date
636	Glossary	n/a	n/a	In alphabetical order, insert the term "**once-through (single-pass) cooling system**" with the text "A once-through (single pass) cooling system is one which water from any source is used to transfer heat from equipment or processes and then discharged.	5/9/2011
638	Glossary, Preconsumer recycled content	n/a	n/a	In the fourth line of the term description, make the "E" of "Excluded" not bold	11/3/2010
640	Glossary	n/a	n/a	In alphabetical order, add the term, "**Roof area** is the area of the uppermost surface of the building which covers enclosed Gross Floor Area, as measured when projected onto a flat, horizontal surface (i.e. as seen in Roof Plan view). 'Roofs', or portions of roofs, covering unenclosed areas (e.g. roofs over porches and open covered parking structures) are not included in the areas used to evaluate compliance with SSc7.2, though they may be applicable to SSc7.1."	8/1/2011

*Shaded rows denote rating system and reference guide changes. The purpose of these rating system changes within the rating system portions of the *LEED Reference Guide for Green Building Design and Construction* is to align with the following LEED Rating Systems that comprise the guide:

LEED 2009 for New Construction and Major Renovations, http://www.usgbc.org/ShowFile.aspx?DocumentID=5546
LEED 2009 for Core and Shell Development, http://www.usgbc.org/ShowFile.aspx?DocumentID=5544
LEED 2009 for Schools New Construction and Major Renovations, http://www.usgbc.org/ShowFile.aspx?DocumentID=5547

Note: The online version of the rating system takes precedent over the rating system portions of the LEED Reference Guides in project guidance and application; project teams are required to adhere to the rating system and rating system addenda effective at the time of the project's registration date.