



DOCUMENT ADDENDA

For the documents titled: **LEED Reference Guide for Green Building Operations and Maintenance, 2009 Edition** *(first edition)*

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/leed/tools/interpretations>.

Note: This document contains addenda pertaining to the LEED 2009 Alternative Compliance Paths for Projects Outside the U.S. This language was released in October, 2011 and was not reflected in the Reference Guide addenda. The 2009 Alternative Compliance Paths for Projects Outside the U.S. have been integrated into the rating system language as of the July 6, 2012 addenda release and all previous versions of these paths are no longer valid.

Page	Location	Credit	Credit Title	Issue	Post Date
n/a	n/a	n/a	n/a	Replace all instances of "[LEED] Registered Project Tools [website]" with "LEED Resources & Tools [website]"; the website (www.usgbc.org/projecttools) remains unchanged	1/8/2010
n/a	n/a	n/a	n/a	Replace all instances of "LEED-Online" with "LEED Online"	1/8/2010
i	Consensus-focused	n/a	n/a	In the fourth line of the second paragraph, replace the text "Washington, DC 20036" with "Washington, DC 20037"	4/14/2010
ii	DISCLAIMER	n/a	n/a	In the fourth line of the third paragraph, replace the text "Washington, DC 20036" with "Washington, DC 20037"	11/2/2009
vii	Water Efficiency (WE)	n/a	n/a	In the fifth line, replace "Credit 4 Cooling Tower Water Management" with "Credit 4.1 Cooling Tower Water Management – Chemical Management" and, in a new line below, "Credit 4.2 Cooling Tower Water Management – Nonpotable Water Use;" both lines end in "115" as the page number	4/14/2010
viii	Materials and Resources (MR)	n/a	n/a	In the fourth line, replace "Credit 2 Sustainable Purchasing – Durable Goods" with "Credit 2.1 Sustainable Purchasing – Electric-Powered Equipment" and, in a new line below, "Credit 2.2 Sustainable Purchasing – Furniture;" both lines end in "259" as the page number	4/14/2010
xiv	When to Use LEED for Existing Buildings: Operations & Maintenance	n/a	n/a	Remove the text of the section and replace with the following: (see below text)	4/14/2010

Page	Location	Credit	Credit Title	Issue	Post Date
	<p>(text relating to above issue)</p> <p>LEED for Existing Buildings: Operations & Maintenance was designed to certify the sustainability of ongoing operations of existing commercial and institutional buildings. If it is unclear that this rating system, as opposed to another, is appropriate for a particular project, please refer to the Rating System Selection Policy. This can be found at www.usgbc.org.</p> <p>LEED for Existing Buildings: Operations & Maintenance encourages owners and operators of existing buildings to implement sustainable practices and reduce the environmental impacts of their buildings over their functional life cycles. Specifically, the rating system addresses exterior building site maintenance programs, water and energy use, environmentally preferred products and practices for cleaning and alterations, sustainable purchasing policies, waste stream management, and ongoing indoor environmental quality. LEED for Existing Buildings: Operations & Maintenance is targeted at single buildings, whether owner occupied, multitenanted, or multiple-building campus projects. It is a whole-building rating system; individual tenant spaces are ineligible.</p>				
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
xv	First paragraph (begins with "program, and")	n/a	n/a	Remove the last two lines of the paragraph and insert the text "The complete MPRs can be found at www.usgbc.org . Definitions and more extensive guidance are provided in a separate document, titled MPR Supplemental Guidance, also available at www.usgbc.org ."	4/14/2010
xv	Credit Interpretation Requests and Rulings	n/a	n/a	<p>Replace the section with the following:</p> <p>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.</p> <p>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.</p> <p>All communications related to Project CIRs and LEED Interpretations will be in electronic format.</p>	5/9/2011

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xiv	Above Registration section	n/a	n/a	<p>Insert the following text:</p> <p>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.</p>	11/3/2010
xiv	Registration	n/a	n/a	In the fifth line of the paragraph, replace “errata” with “addenda”	11/3/2010
xvi	Updates and Addenda	n/a	n/a	Remove the text of the second paragraph and replace with "Project teams are subject to Rating System addenda requirements based on registration date. It is strongly recommended that project teams adhere to the Reference Guide and Reference Guide addenda based on registration date. Rating System and Reference Guide addenda can be found on the USGBC's LEED Addenda website, www.usgbc.org/addenda ."	1/8/2010
xviii	Second paragraph on page (begins with “When registering”)	n/a	n/a	<p>Remove the following text:</p> <p>There is no registration fee for registering a recertification project, but recertification project teams must contact GBCI to ensure that the registration fee is waived. The recertification fee is 50% of the fee for the project's LEED for Existing Buildings: Operations & Maintenance initial certification. This fee is due when the application for recertification review is submitted.</p>	11/3/2010
xviii	V. Initial Certification vs. Recertification	n/a	n/a	<p>Delete: “The recertification fee is 50% of the fee for the project's LEED for Existing Buildings: Operations & Maintenance initial certification.”</p> <p>Replace with: “For recertification fee pricing, please check the GBCI web site or contact Customer Service.”</p>	1/1/2013
xviii	V. Initial Certification vs. Recertification	n/a	n/a	Delete: “This fee is due when the application for recertification review is submitted. For more information on how to begin recertification, contact LEED Customer Service.”	1/1/2013

Page	Location	Credit	Credit Title	Issue	Post Date																												
xix	VI. PERFORMANCE PERIOD	n/a	n/a	Following the first paragraph, change the font, size, and boldness of the text “Requirements for Initial Certification” to match the other sub-headers	12/2/2009																												
xix	Requirements for Initial Certification	n/a	n/a	In the second line of the second paragraph, replace remainder of the paragraph starting with “However” with the text “However, all performance periods must overlap and terminate within 30 calendar days of each other, as illustrated in Table 1 . In this example, each performance period is at least 3 months, and the termination dates range from April 1 through April 26.”	12/2/2009																												
xix	V. Initial Certification vs. Recertification	n/a	n/a	Delete: “For more information on recertification, please e-mail LEED Customer Service.” Replace with: “For more information on recertification, please see the LEED EB Recertification Guidance.”	1/1/2013																												
xx	Table 1	n/a	n/a	Replace the table with the table below so it becomes: (see below table)	12/2/2009																												
(table relating to above issue)																																	
<table><tr><th>Credit</th><th>Start</th><th>End*</th><th>Duration**</th></tr><tr><td>WEc3, Water-Efficient Landscaping</td><td>February 22, 2009</td><td>April 20, 2010</td><td>14 months</td></tr><tr><td>SSc6, Stormwater Management</td><td>April 6, 2009</td><td>April 22, 2010</td><td>12.5 months</td></tr><tr><td>EAp2, Minimum Energy Efficiency Performance</td><td>April 1, 2009</td><td>April 1, 2010</td><td>12 months</td></tr><tr><td>SSc2, Building Exterior and Hardscape Management Plan</td><td>August 25, 2009</td><td>April 25, 2010</td><td>8 months</td></tr><tr><td>WEp1, Minimum Indoor Plumbing Fixture and Fitting Efficiency</td><td>January 12, 2010</td><td>April 26, 2010</td><td>3.5 months</td></tr><tr><td colspan="4">* All performance periods must end within the same 30-day interval. ** Minimum duration = 3 months; maximum duration = 24 months.</td></tr></table>						Credit	Start	End*	Duration**	WEc3, Water-Efficient Landscaping	February 22, 2009	April 20, 2010	14 months	SSc6, Stormwater Management	April 6, 2009	April 22, 2010	12.5 months	EAp2, Minimum Energy Efficiency Performance	April 1, 2009	April 1, 2010	12 months	SSc2, Building Exterior and Hardscape Management Plan	August 25, 2009	April 25, 2010	8 months	WEp1, Minimum Indoor Plumbing Fixture and Fitting Efficiency	January 12, 2010	April 26, 2010	3.5 months	* All performance periods must end within the same 30-day interval. ** Minimum duration = 3 months; maximum duration = 24 months.			
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xx	Application Submittal upon Completion of the Performance Period	n/a	n/a	In the paragraph, replace the last two sentences with the text “In the example above, the termination interval ends on April 26, 2010. The certification application therefore must be submitted on or before June 25, 2010.”	12/2/2009																												
xxi	Project Narrative	n/a	n/a	In item 2 b, replace the text with “Document the footprint of the vehicle parking area if any.”	4/14/2010																												

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xxi	Project Narrative	n/a	n/a	Remove the entire text of item 3	4/14/2010
xxii	Below the section "Credit Substitution"	n/a	n/a	<p>Add the following section:</p> <p>Units of Measurement Guidance</p> <p>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.</p>	11/3/2010
xxiii	IX. FACILITY ALTERATIONS AND ADDITIONS	n/a	n/a	In the first bulleted item, replace the text with "Maximum. Please refer to the Rating System Selection policy, available at www.usgbc.org ."	4/14/2010
xxiv	Water Efficiency	n/a	n/a	Replace the third line "WE Credit 4, Option 2 Cooling Tower Water Management – Nonpotable Water Source Use" with "WE Credit 4.2 Cooling Tower Water Management – Nonpotable Water Source Use"	4/14/2010
xxiv	Materials and Resources	n/a	n/a	Replace the second line "MR Credit 2 Sustainable Purchasing – Durable Goods" with "MR Credit 2.1 or 2.2 Sustainable Purchasing – Durable Goods"	4/14/2010
xxiv	Materials and Resources	n/a	n/a	Below the sixth line, insert the text "MR Credit 8 Solid Waste Management – Durable Goods" as a new line	4/14/2010
xxv	XIII. TOOLS FOR REGISTERED PROJECTS	n/a	n/a	<p>Replace the first paragraph with the following:</p> <p>LEED offers additional resources for LEED project teams on the USGBC website, at www.usgbc.org/projecttools. The LEED Resources and Tools website provides resources for starting the project, including rating system addenda, documentation requirements, and referenced industry standards.</p>	11/3/2010
xxv	XIII. TOOLS FOR REGISTERED PROJECTS	n/a	n/a	Make the first sentence of the second, third, and fourth paragraphs bold so it becomes " Minimum Narrative Requirements, Policy, Program, and Plan Models, and Declarant Definitions and Other Definitions ," respectively	11/3/2010

Page	Location	Credit	Credit Title	Issue	Post Date
xxvi	Licensed Professional Exemption Form	n/a	n/a	In this third paragraph of the page, replace the text so it becomes the following: Licensed Professional Exemption. Licensed Professional Exemptions (LPEs) can be used by a project team's registered professional engineer, registered architect, registered interior designer, or registered landscape architect as a streamlined path for documenting certain credits, or bypassing otherwise-required submittals. License information and an Exemption Signature in LEED Online are required to document each exemption the project team wishes to claim. Licensed Professional Exemptions are noted in the corresponding credit documentation section of LEED Online.	11/2/2009
xxvi	XIV. HOW TO USE THIS REFERENCE GUIDE	n/a	n/a	In the fourth line of the paragraph, remove the text "case studies of buildings that have implemented these strategies successfully,"	1/8/2010
5*	Requirements	SSc1	LEED Certified Design and Construction	Add the following text after OPTION 3: "OR OPTION 4 Show that the building has been previously certified under LEED for Retail: New Construction and Major Renovations. OR OPTION 5 Show that the building has been previously certified under LEED for Healthcare New Construction and Major Renovations. OR OPTION 6 Show that the building has previously been certified under any version of LEED for Existing Buildings and that ongoing performance has been tracked during the entire recertification period (from initial certification until the recertification application)."	11/1/2011
5*	Requirements	SSc1	LEED Certified Design and Construction	Below Option 6, add a 7th option: "OR OPTION 7 Show that the building has been previously certified under LEED for Homes."	4/2/2014

Page	Location	Credit	Credit Title	Issue	Post Date
6	4. Implementation	SSc1	LEED Certified Design and Construction	<p>Replace the section's first paragraph with the following text:</p> <p>"Buildings that have been previously certified for LEED for New Construction, LEED for Schools, LEED for Retail: New Construction, or LEED for Healthcare (rating systems that address design and construction activities for both new buildings and major renovations of existing buildings) can easily achieve this credit. If the building is not currently LEED certified for New Construction, Schools, Retail, or Healthcare, consider pursuing certification under the appropriate rating system during any major renovations to the HVAC system, envelope, or interior."</p>	11/1/2011
6	4. Implementation	SSc1	LEED Certified Design and Construction	<p>Add the following paragraph after the second paragraph (before the last paragraph):</p> <p>"This credit is available to LEED for Existing Buildings projects that recertify using data from the entire recertification period (the period from initial certification until recertification application). It is not available to projects that certify once, stop tracking performance, then certify again with a new, three-month performance period."</p>	11/1/2011
7	7. Documentation Guidance	SSc1	LEED Certified Design and Construction	<p>Add the following as a third bulleted item under the second bulleted item:</p> <p>"For projects pursuing Option 6 (recertification of LEED for Existing Buildings projects), please provide with the application a narrative describing the measures that have been in place for ongoing tracking and any lapses in this tracking during the performance period."</p>	11/1/2011
23*	Requirements	SSc4	Alternative Commuting Transportation	In the third line of the first paragraph, replace the word "includesincludes" with "includes"	1/8/2010
23*	Requirements	SSc4	Alternative Commuting Transportation	Revise the second sentence of the first paragraph to read: "For the purposes of this credit, alternative transportation includes at a minimum, telecommuting; compressed workweeks; mass transit; rideshare options ¹ human-powered conveyances; carpools; vanpools; and low-emitting, fuel-efficient ² or alternative-fuel vehicles; walking or bicycling."	7/6/2012
23*	Footnotes	SSc4	Alternative Commuting Transportation	Insert footnote 1 and change footnote 1 to footnote 2, "1. Rideshare is a transit service that involves sharing a single vehicle with multiple people, excluding large-scale vehicles such as buses and trains. The rideshare transit facility must include a signed stop and a clearly defined waiting area. Additionally, the rideshare must include an enclosed passenger seating area, fixed route service, fixed fare structure, continuous daily operation, and the ability to pick up and drop off multiple riders."	7/6/2012

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27	OPTIONS 1 and 2	SSc4	Alternative Commuting Transportation	In the last line of the paragraph, replace the period with a semicolon and add text so it becomes the following: “...performance rates; confirm the program is of equivalent or greater stringency than SCAQMD; and demonstrate that the program encompasses a small and cohesive enough area to assume reasonable similarity of transportation options across the participating buildings.”	11/2/2009
28	APPROACH 1	SSc4	Alternative Commuting Transportation	Replace section with that of the supplementary document: https://www.usgbc.org/ShowFile.aspx?DocumentID=9315	5/9/2011
29-30	Accounting for Diverse Modes and Populations	SSc4	Alternative Commuting Transportation	<p>Replace text starting from "Accounting for Diverse Modes and Populations" on page 29 of Reference Guide up to (stopping before) "7. Documentation Guidance" on page 30 of Reference Guide with the following:</p> <p>Accounting for Diverse Modes and Populations</p> <p>For non-residential projects (i.e. those using calculations based on the annual nonhome-based commuting trips per employee), only regular building occupants can be included in the occupant commute survey. Those who are absent on 1 or more days of the survey period because they telecommute or work a compressed workweek must be listed as making zero trips for the day (or using zero vehicles, per the SCQAMD metric). Employees who walk, cycle, tele-commute, use public transit, or use a fuel-efficient vehicle (as defined in this credit) are counted as making zero conventional commute trips or using zero vehicles. Those who carpool or ride-share for more than 50% of their commuting trip distance are counted according to the number of other commuters in the vehicle. For example, if 2 people carpool to work together for most of the distance to the building, each is counted as making half a trip; 3 carpoolers are counted as making 33.3% of a trip each. Employees who report vacation or sick leave days should be noted but not included in the results.</p> <p>Example 4 Building D has 100 regular occupants, 25 of whom use alternative transportation for their daily commute. To determine the AVR for the building, divide total occupancy (100) by the number of conventional single-occupancy vehicles used for occupants' daily commute (75). In this instance the ARV is 1.3. To calculate the RCCT, divide the number of trips avoided or reduced by the use of alternative transportation (50) by the total commuting trips (200). The RCCT is 25%.</p> <p>For residential projects (i.e. those using calculations based on the annual home-based commuting trips per capita), residents' commute patterns only</p>	4/1/2012

Page	Location	Credit	Credit Title	Issue	Post Date
				<p>should be included in the occupant commute survey. For residential calculations, assign a value of zero to a trip in which a resident carpools.</p> <p>Example 5 Apartment building E provided a survey to its 10 occupants. After a preferred parking and transit voucher program was started, seven residents commute to work only using a single occupancy vehicle in both directions, 1 resident carpools to work but drives alone on the return trip, another resident carpools to work but takes transit home and a final resident takes transit in both directions. This building is considered to have reduced its number of regular commuting trips by 25% since 5 of the 20 commute trips used alternative transportation.</p> <p>Projects containing both residential and nonresidential occupants should use a combination of the approaches listed above if the majority building occupancy type (residential or employee) comprises less than 90% of the total building occupancy.</p>	
31	Second paragraph (section 8. Examples)	SSc4	Alternative Commuting Transportation	In the fifth line of the paragraph, replace "4" with "5" so the text becomes "(100 occupants x 2 trips per day x 5 days per week)"	7/19/2010
31	9. Exemplary Performance	SSc4	Alternative Commuting Transportation	Replace 95% with 80% and remove "trips equivalent to an average vehicle ridership (as defined by SCAQMD) of 20"	5/9/2011
32	11. Resources	SSc4	Alternative Transportation	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
32	11. Resources	SSc4	Alternative Transportation	Change the California Air Resources Board (CARB), Cleaner Car Guide website to " http://www.driveclean.ca.gov/ "	11/1/2011
38	Equation 2	SSc5	Site Development – Protect or Restore Open Habitat	Replace with "Natural Vegetated Roof Area ≥ 0.05 (Total Site Area)"	11/3/2010
40	12. Definitions	SSc5	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
41*	Requirements	SSc6	Stormwater Quantity Control	Add "OPTION 1" before first paragraph	7/6/2012

Page	Location	Credit	Credit Title	Issue	Post Date
41*	Requirements	SSc6	Stormwater Quantity Control	Add the following after the second paragraph: OR OPTION 2 Use Low Impact Development (LID) practices to capture and treat water from 25% of the impervious surfaces for the 95th percentile of regional or local rainfall events.	7/6/2012
41*	Footnotes	SSc6	Stormwater Quantity Control	Add the following footnotes to the bottom of the page: 1. The baseline condition is the site condition prior to LEED registration. 2. low impact development (LID) is an approach to managing stormwater runoff that emphasizes on-site natural features to protect water quality by replicating the natural land cover hydrologic regime of watersheds and addressing runoff close to its source. Examples include better site design principles such as minimizing land disturbance, preserving vegetation, minimizing impervious cover, and design practices like rain gardens, vegetated swales and buffers, permeable pavement, rainwater harvesting, and soil amendments. These are engineered practices that may require specialized design assistance.	7/6/2012
44	6. Calculations	SSc6	Stormwater Quantity Control	Replace the text in the second paragraph titled "Volume Captured via Collection Facilities" with the following: "For less complex sites without detention facilities, teams can perform a water balance to determine if a proposed reduction in impervious area and/or rain capture systems will result in the required reduction in site runoff. However, in order to determine the discharge rate and quantity from a site with a wet or dry detention facility, project teams should make a detailed analysis of the stage-storage relationship of the detention facility, coupled with an analysis of any control structures used to regulate discharge. Drawdown rates due to infiltration and therefore geotechnical conditions will also need to be considered. While it is possible to perform these types of calculations by hand, a computer simulation model is more typically used and recommended." (removed 2/22/2010, see below item)	1/8/2010

Page	Location	Credit	Credit Title	Issue	Post Date
44	6. Calculations	SSc6	Stormwater Quantity Control	<p>(correction to above item)</p> <p>Replace the text in the third paragraph titled "Volume Captured via Retention Facilities" with the following:</p> <p>"For less complex sites without detention facilities, teams can perform a water balance to determine if a proposed reduction in impervious area and/or rain capture systems will result in the required reduction in site runoff. However, in order to determine the discharge rate and quantity from a site with a wet or dry detention facility, project teams should make a detailed analysis of the stage-storage relationship of the detention facility, coupled with an analysis of any control structures used to regulate discharge. Drawdown rates due to infiltration and therefore geotechnical conditions will also need to be considered. While it is possible to perform these types of calculations by hand, a computer simulation model is more typically used and recommended."</p>	2/22/2010
46	8. Examples	SSc6	Stormwater Quantity Control	<p>Revise the third equation box to:</p> $Q_r = (800 \text{ cf} / 259,200 \text{ sec}) = (0.003 \text{ cfs or } 1.35 \text{ gpm})$	11/1/2011
52	Table 1	SSc7.1	Heat Island Effect, Non-Roof	Replace SRI for "Typical new gray concrete" with 38	5/9/2011
55	12. Definitions	SSc7.1	Heat Island Effect, Non-Roof	For heat island effect , in the second sentence, delete "Particularly in urban areas"; revise the last clause so that it reads, "Other sources may include vehicle exhaust, air-conditioners, and street equipment. Reduced airflow because of tall buildings and narrow streets exacerbate the effect."	10/1/2012
56	12. Definitions	SSc7.1	Heat Island Effect, Non-Roof	Replace the definition of " solar reflectance, albedo " with "the fraction of solar energy that is reflected by a surface on a scale of 0 to 1. Black paint has a solar reflectance of 0; white paint (titanium dioxide) has a solar reflectance of 1. The standard technique for its determination uses spectrophotometric measurements, with an integrating sphere to determine the reflectance at each wavelength. The average reflectance is then determined by an averaging process, using a standard solar spectrum, as documented by ASTM Standards E903 and E892."	10/1/2012
57*	OPTION 1	SSc7.2	Heat Island Effect-Roof	<p>Below equation, add the text and equation:</p> <p>Alternatively, the following equation may be used to calculate compliance:</p> <p>(see https://www.usgbc.org/ShowFile.aspx?DocumentID=9758)</p>	8/1/2011

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57*	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 https://www.usgbc.org/ShowFile.aspx?DocumentID=9759)	8/1/2011
61	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
62	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 Operations (IO) credit for exemplary performance by demonstrating that 95% 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
63	12. 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
63	12. 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
63	12. Definitions	SSc7.2	Heat Island Effect-Roof	For heat island effect , in the second sentence, delete "Particularly in urban areas"; revise the last clause so that it reads, "Other sources may include vehicle exhaust, air-conditioners, and street equipment. Reduced airflow because of tall buildings and narrow streets exacerbate the effect."	10/1/2012
63	12. Definitions	SSc7.2	Heat Island Effect-Roof	Replace the definition of " solar reflectance, or albedo " with "the fraction of solar energy that is reflected by a surface on a scale of 0 to 1. Black paint has a solar reflectance of 0; white paint (titanium dioxide) has a solar reflectance of 1. The standard technique for its determination uses spectrophotometric measurements, with an integrating sphere to determine the reflectance at each wavelength. The average reflectance is then determined by an averaging process, using a standard solar spectrum, as documented by ASTM Standards E903 and E892."	10/1/2012
69	Rule 3	SSc8	Light Pollution Reduction	Replace the second to last sentence to read, "Finally, measure the angle between this fixture line of sight and the perpendicular with the vertex located at the fixture edge."	8/1/2011
69	Figure 3	SSc8	Light Pollution Reduction	See revised image: https://www.usgbc.org/ShowFile.aspx?DocumentID=9760	8/1/2011

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70	OPTION 2	SSc8	Light Pollution	At end of the second paragraph, add the sentence "Lighting of flags must also meet the shielding requirements."	11/3/2010
75	Definitions	SSc8	Light Pollution	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
79	Table	n/a	n/a	In the sixth row, replace "WE Credit 4 Cooling Tower Water Management" with "WE Credit 4.1 Cooling Tower Water Management – Chemical Management" and, below as a new row, "WE Credit 4.2 Cooling Tower Water Management – Nonpotable Water Source Use"	4/14/2010
81*	Requirements	WEp1	Minimum Indoor Plumbing Fixture and Fitting Efficiency	In the section, replace the three instances of "1993" with "1994"	7/19/2010

Page	Location	Credit	Credit Title	Issue	Post Date																								
81*	Requirements, Potential Technologies & Strategies	WEp1	Minimum Indoor Plumbing Fixture and Fitting Efficiency	<p>Reduce potable water use of indoor plumbing fixtures and fittings to a level equal to or below the LEED 2009 for Existing Buildings: Operations & Maintenance baseline, calculated assuming 100% of the building's indoor plumbing fixtures and fittings meet the plumbing code requirements as stated in the 2006 editions of the Uniform Plumbing Code (UPC) or International Plumbing Code (IPC) pertaining to fixture and fitting performance. Projects in Europe may use the values listed in the table below.</p> <p>Demonstrate fixture and fitting performance through calculations to compare the water use of the as-installed fixtures and fittings with the use of UPC- or IPC-compliant fixtures and fittings, as explained in the LEED Reference Guide for Green Building Operations & Maintenance, 2009 Edition. Projects in Europe may use the values listed in the table below.</p> <p>Europe Standards and Well Standards</p> <table><thead><tr><th>Fixture</th><th>Europe Standards</th><th>Well Standards</th></tr></thead><tbody><tr><td>Water Closets (liters per flush, lpf)</td><td>6</td><td>4 to 5</td></tr><tr><td>Urinals (lpf)</td><td>4</td><td>1</td></tr><tr><td>Showerheads (liters per minute, lpm*)</td><td>10</td><td>4.5 to 9</td></tr><tr><td>Public lavatory faucets and aerators (lpm*)</td><td>1.9</td><td></td></tr><tr><td>Private lavatory faucets** and aerators (lpm*)</td><td>9</td><td>4 to 6</td></tr><tr><td>Public metering lavatory faucets and aerators (liters per metering cycle*)</td><td>1</td><td></td></tr><tr><td>Kitchen and janitor sink faucets (lpm*)</td><td>9</td><td></td></tr></tbody></table> <p>*When measured at a flowing water pressure of 3 bar ** Bidets must meet the baseline for private lavatory faucets The water use requirements listed in this table are based on the following standards: EN 997:2012; EN 1112:1998; EN 246:2003; EN 200:2008; and EN 817:2008.</p> <p>Install, where possible, water-conserving indoor plumbing fixtures and fittings that meet or exceed the UPC 2006 or IPC 2006 fixture and fitting requirements, or the requirements for Europe listed in the table above, in combination with high-efficiency or dry fixture and control technologies.</p>	Fixture	Europe Standards	Well Standards	Water Closets (liters per flush, lpf)	6	4 to 5	Urinals (lpf)	4	1	Showerheads (liters per minute, lpm*)	10	4.5 to 9	Public lavatory faucets and aerators (lpm*)	1.9		Private lavatory faucets** and aerators (lpm*)	9	4 to 6	Public metering lavatory faucets and aerators (liters per metering cycle*)	1		Kitchen and janitor sink faucets (lpm*)	9		7/1/2013
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Kitchen and janitor sink faucets (lpm*)	9																												
81*	Requirements	WEp1	Minimum Indoor Fixture and Fitting Efficiency	<p>Add the following sentence under the first paragraph: <i>“Projects in Europe may use values defined by European Standards”</i></p>	04/02/2014																								

Page	Location	Credit	Credit Title	Issue	Post Date																											
81*	Requirements	WEp1	Minimum Indoor Fixture and Fitting Efficiency	Revise the second to last paragraphs: <i>“Demonstrate fixture and fitting performance through calculations to compare the water use of the as-installed fixtures and fittings with the use of UPC- or IPC-compliant fixtures and fittings, or alternatives for Europe as explained in the LEED Reference Guide for Green Building Operations & Maintenance, 2009 Edition.”</i>	04/02/2014																											
82*	Requirements	WEp1	Minimum Indoor Fixture and Fitting Efficiency	Deleted the following table: Europe Standards and Well Standards <table><tr><th>Fixture</th><th>Europe Standards</th><th>Well Standards</th></tr><tr><td>Water Closets (liters per flush, lpf)</td><td>6</td><td>4 to 5</td></tr><tr><td>Urinals (lpf)</td><td>4</td><td>1</td></tr><tr><td>Showerheads (liters per minute, lpm*)</td><td>10</td><td>4.5 to 9</td></tr><tr><td>Public lavatory faucets and aerators (lpm*)</td><td>1.9</td><td></td></tr><tr><td>Private lavatory faucets** and aerators (lpm*)</td><td>9</td><td>4 to 6</td></tr><tr><td>Public metering lavatory faucets and aerators (liters per metering cycle*)</td><td>1</td><td></td></tr><tr><td>Kitchen and janitor sink faucets (lpm*)</td><td>9</td><td></td></tr><tr><td colspan="3">*When measured at a flowing water pressure of 3 bar ** Bidets must meet the baseline for private lavatory faucets The water use requirements listed in this table are based on the following standards: EN 997:2012; EN 1112:1998; EN 246:2003; EN 200:2008; and EN 817:2008.</td></tr></table>	Fixture	Europe Standards	Well Standards	Water Closets (liters per flush, lpf)	6	4 to 5	Urinals (lpf)	4	1	Showerheads (liters per minute, lpm*)	10	4.5 to 9	Public lavatory faucets and aerators (lpm*)	1.9		Private lavatory faucets** and aerators (lpm*)	9	4 to 6	Public metering lavatory faucets and aerators (liters per metering cycle*)	1		Kitchen and janitor sink faucets (lpm*)	9		*When measured at a flowing water pressure of 3 bar ** Bidets must meet the baseline for private lavatory faucets The water use requirements listed in this table are based on the following standards: EN 997:2012; EN 1112:1998; EN 246:2003; EN 200:2008; and EN 817:2008.			04/02/2014
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82*	Potential Technologies & Strategies	WEp1	Minimum Indoor Fixture and Fitting Efficiency	Revise: “or the requirements for Europe listed in the table” to: “or the alternatives for Europe listed above.”	04/02/2014																											
82	1. Benefits and Issues to Consider	WEp1	Minimum Indoor Plumbing Fixture and Fitting Efficiency	In the first line of the first paragraph, remove the word “potable”	7/19/2010																											
82	Environmental Issues	WEp1	Minimum Indoor Plumbing Fixture and Fitting Efficiency	In the first line of the second paragraph, remove the word “potable”	7/19/2010																											
82	2. Related Credits	WEp1	Minimum Indoor Plumbing Fixture and Fitting Efficiency	In the fourth bulleted item, replace the text “WE Credit 4: Cooling Tower Water Management” with “WE Credit 4.1: Cooling Tower Water Management – Chemical Management” and, below as a new line, “WE Credit 4.2: Cooling Tower Water Management – Nonpotable Water Source Use”	4/14/2010																											
84	Table 1	WEp1	Minimum Indoor Plumbing Fixture and Fitting Efficiency	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																											

Page	Location	Credit	Credit Title	Issue	Post Date
84	Table 1	WEp1	Minimum Indoor Plumbing Fixture and Fitting Efficiency	In the eighth row of the table in the "Fixture" column, remove the text "and janitor" so it becomes "Kitchen sink faucets"	11/2/2009
84	Table 1	WEp1	Minimum Indoor Plumbing Fixture and Fitting Efficiency	In footnote "b," replace "2.0 gmp" with "2.0 gpm"	7/19/2010
84	Paragraph below Table 1	WEp1	Minimum Indoor Plumbing Fixture and Fitting Efficiency	Replace the paragraph with the following: 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.	7/19/2010
84	Second paragraph below Table 1	WEp1	Minimum Indoor Plumbing Fixture and Fitting Efficiency	Remove the paragraph beginning with, "Although water-efficient dishwashers..."	5/9/2011
84	4. Implementation	WEp1	Minimum Indoor Plumbing Fixture and Fitting Efficiency	Insert the following paragraph at the bottom of the page: "For hospitality projects, commercial kitchen sinks and bar sinks including pot sinks, prep sinks, wash down, and cleaning sinks are considered process water and are not included in the water use calculations. Hand washing sinks located in commercial kitchen areas that do not pass through a grease interceptor should be included in the water use calculations under the kitchen sink category."	11/1/2011
85	Fixture Usage Groups	WEp1	Minimum Indoor Plumbing Fixture and Fitting Efficiency	At the end of the section, insert the following text as a new paragraph: "For hospitality projects, fixture usage groups generally include a usage group for guest rooms and a usage group for common areas and back of house. For the purposes of the credit calculations, assume that hotel guests use the fixtures and fittings in their room, employees use back of house and / or common areas, and transient guests use common area restrooms."	11/1/2011

Page	Location	Credit	Credit Title	Issue	Post Date
85	Occupancy	WEp1	Minimum Indoor Plumbing Fixture and Fitting Efficiency	<p>After the first paragraph, insert the following text as a new paragraph:</p> <p>“For lodging projects, FTE and transient occupants are calculated per the typical methodology for the respective occupancy types. Hotel guests may be determined based on the number and size of guest room units in the project. Generally, assume 1.5 occupants per guest room and multiply the resulting total by 60% (average hotel occupancy per American Hotel & Lodging Association information) to determine the total number of hotel guests. Alternatively, occupants may be derived from actual historical occupancy numbers.</p> <p>Fixture use assumptions for hotel guests follow the fixture assumptions for residential occupants. Accordingly, lavatories located in guest rooms are considered to be private lavatories. Additionally, day use guests at the hotel should be included in the value for transient / visitor occupants and are assumed to use common area restrooms. Per typical fixture use assumptions, this category of occupants assumes zero shower uses throughout the day.</p> <p>Example: 123 room hotel Total Hotel Guests = $123 \times 1.5 \times 60\%$ Total Hotel Guests = 111”</p>	11/1/2011
87	Table 3	WEp1	Minimum Indoor Plumbing Fixture and Fitting Efficiency	<p>Replace the table with two tables so it becomes:</p> <p>(see below tables)</p>	11/2/2009 (updated 2/2/2011)

Page	Location	Credit	Credit Title	Issue	Post Date																																											
	(tables relating to above issue)																																															
	Table 3a. Non-residential Default Fixture Uses, by Occupancy Type																																															
	<table><tr><th rowspan="2">Fixture Type</th><th rowspan="2">Duration (sec)</th><th colspan="3">Uses / Day</th></tr><tr><th>FTE</th><th>Transient (Student / Visitor)</th><th>Retail Customer</th></tr><tr><td>Water Closet (Female)</td><td>n/a</td><td>3</td><td>0.5</td><td>0.2</td></tr><tr><td>Water Closet (Male)</td><td>n/a</td><td>1</td><td>0.1</td><td>0.1</td></tr><tr><td>Urinal (Female)</td><td>n/a</td><td>0</td><td>0</td><td>0</td></tr><tr><td>Urinal (Male)</td><td>n/a</td><td>2</td><td>0.4</td><td>0.1</td></tr><tr><td>Lavatory Faucet *</td><td>15*</td><td>3</td><td>0.5</td><td>0.2</td></tr><tr><td>Shower</td><td>300</td><td>0.1</td><td>0</td><td>0</td></tr><tr><td>Kitchen Sink</td><td>15</td><td>1</td><td>0</td><td>0</td></tr></table>					Fixture Type	Duration (sec)	Uses / Day			FTE	Transient (Student / Visitor)	Retail Customer	Water Closet (Female)	n/a	3	0.5	0.2	Water Closet (Male)	n/a	1	0.1	0.1	Urinal (Female)	n/a	0	0	0	Urinal (Male)	n/a	2	0.4	0.1	Lavatory Faucet *	15*	3	0.5	0.2	Shower	300	0.1	0	0	Kitchen Sink	15	1	0	0
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	* Default duration is 12 seconds for lavatory faucet with autocontrol																																															
	Table 3b. Residential Default Fixture Uses																																															
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87	Table 3a (see above)	WEp1	Minimum Indoor Plumbing Fixture and Fitting Efficiency	In the sixth row ("Lavatory Faucet") row of the table in the 11/2/2009 addenda, replace the duration (sec) of 15 with 30	2/2/2011																																											
87	Table 3a (see above)	WEp1	Water Use Reduction	Replace the baseline in the related note below table with "Default duration for the metering type / autocontrol lavatory faucet is 0.25 gallons per cycle (gpc) for the baseline case and 12 seconds for the design case."	4/1/2013																																											
87	Table 4	WEp1	Minimum Indoor Plumbing Fixture and Fitting Efficiency	In the fifth row of the table in the "Flow rate" column, replace "1.8 gpm" with ""≤ 2.2 gpm"	7/19/2010																																											

Page	Location	Credit	Credit Title	Issue	Post Date
87	Table 4	WEp1	Minimum Indoor Plumbing Fixture and Fitting Efficiency	In the seventh row of the table in the “Flow Fixture” column, replace “Low-flow shower” with “WaterSense shower”	7/19/2010
87	Table 4	WEp1	Minimum Indoor Plumbing Fixture and Fitting Efficiency	In the seventh row of the table in the “Flow Rate” column, replace “1.8 gpm” with “≤ 2.0 gpm”	7/19/2010
88	First paragraph on page (above “Baseline Case Water Consumption” section)	WEp1	Minimum Indoor Plumbing Fixture and Fitting Efficiency	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
88	Below “Baseline Case Water Consumption”	WEp1	Minimum Indoor Plumbing Fixture and Fitting Efficiency	<p>Add in the following section:</p> <p>Eligible Fixtures</p> <p>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.</p> <p>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.</p>	2/2/2011
90	11. Resources	WEp1	Minimum Indoor Plumbing Fixture and Fitting Efficiency	<p>In alphabetical order, insert the following text:</p> <p>Alliance for Water Efficiency http://www.allianceforwaterefficiency.org/ The Alliance for Water Efficiency provides information and assistance on water conservation efforts.</p>	7/19/2010

Page	Location	Credit	Credit Title	Issue	Post Date
90	11. Resources	WEp1	Minimum Indoor Plumbing Fixture and Fitting Efficiency	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
90	11. Resources	WEp1	Minimum Indoor Plumbing Fixture and Fitting Efficiency	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
90	11. Resources	WEp1	Minimum Indoor Plumbing Fixture and Fitting Efficiency	In the resource "U.S. EPA, Watersense," underline the website " http://www.epa.gov/watersense/ ."	7/19/2010
91	11. Resources	WEp1	Minimum Indoor Plumbing Fixture and Fitting Efficiency	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
91	11. Resources	WEp1	Minimum Indoor Plumbing Fixture and Fitting Efficiency	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
91	12. Definitions	WEp1	Minimum Indoor Plumbing Fixture and Fitting Efficiency	Blackwater: replace the first sentence with, " Blackwater is wastewater containing urine or fecal matter that should be discharged to the sanitary drainage system of the building or premises in accordance with the International Plumbing Code."	10/1/2012

Page	Location	Credit	Credit Title	Issue	Post Date
91	12. Definitions	WEp1	Minimum Indoor Plumbing Fixture and Fitting Efficiency	Replace the definition of "graywater" with " Graywater is untreated household waste water which has not come into contact with toilet waste. Graywater typically includes used water from bathtubs, showers, bathroom wash basins, and water from clothes-washer and laundry tubs, though definitions may vary. Some states and local authorities also allow kitchen sink wastewater to be included in graywater. Project teams should comply with the graywater definition established by the authority having jurisdiction in the project area."	10/1/2012
94	2. Related Credits	WEc1	Water Performance Measurement	In the fourth bulleted item, replace the text "WE Credit 4: Cooling Tower Water Management" with "WE Credit 4.1: Cooling Tower Water Management – Chemical Management" and, below as a new line, "WE Credit 4.2: Cooling Tower Water Management – Nonpotable Water Source Use"	4/14/2010
99*	Requirements, Potential Technologies & Strategies	WEc2	Additional Indoor Plumbing Fixture and Fitting Efficiency	Specify water-conserving indoor plumbing fixtures and fittings that exceed the Uniform Plumbing Codes 2006 or International Plumbing Codes 2006 fixture and fitting requirements, , or the requirements for Europe listed in WEp1, in combination with ultrahigh-efficiency or dry fixture and fitting and control technologies.	7/1/2013
101*	Option 1	WEc3	Water Efficient Landscaping	Delete mid-summer from the first sentence; add "using the mid-summer baseline case or the month with the highest irrigation demand" after "region" in the first sentence.	7/6/2012
101*	Option 2	WEc3	Water Efficient Landscaping	Delete mid-summer from the first sentence; add "using the mid-summer baseline case or the month with the highest irrigation demand" after "use" in the first sentence.	7/6/2012
101*	Option 3	WEc3	Water Efficient Landscaping	Insert the word "provincial," between "regional" and "state"; insert the word "territorial" between "state" and "national"	7/6/2012
105	Project Site Viability Calculation	WEc3	Water Efficient Landscaping	Replace the second and third sentences of the paragraph with "A site without vegetation or ecologically appropriate features on the grounds is eligible for this credit if its roof and/or courtyard garden space or outdoor planters constitute at least 5% of the total area. Project site viability is determined by calculating the portion of the total building site area covered with planters and/or gardens."	7/19/2010

Page	Location	Credit	Credit Title	Issue	Post Date
105	Irrigation Water Use Calculation	WEc3	Water Efficient Landscaping	At the end of the third paragraph, add the following text: 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
109	Equation 5	WEc3	Water Efficient Landscaping	Replace "CE" with "(1 – CE)"	2/2/2011
115 – 121*	n/a	WEc4	Cooling Tower Water Management	Replace all instances of "WE Credit 4" and "Credit 4" with "WE Credits 4.1 – 4.2" and "Credits 4.1 – 4.2" respectively	2/1/2010
115*	Intent	WEc4.1 WEc4.2	Cooling Tower Water Management	Add "or evaporative condenser" after "cooling tower"	7/6/2012
115*	Option 1 WE Credit 4.1	WEc4.1 WEc4.2	Cooling Tower Water Management	Add "or evaporative condenser" after "cooling tower" in the first sentence.	7/6/2012
115*	Requirements	WEc4	Cooling Tower Water Management	Remove the following text: OPTION 1. Chemical Management (1 point) Replace with: WE Credit 4.1 (1 point): Chemical Management	2/1/2010
115*	Requirements	WEc4	Cooling Tower Water Management	Remove the following text: OR OPTION 2. Nonpotable Water Source Use (1 point) Replace with: AND/OR WE Credit 4.2 (1 point): Nonpotable Water Source Use	2/1/2010

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115*	Requirements	WEc4	Cooling Tower Water Management	Remove the following text: OR OPTION 3. (2 points) Achieve both Options 1 and 2.	2/1/2010
118	Nonpotable Water Supply	WEc4	Cooling Tower Water Management	In the last line of the first paragraph, replace “WE Credit 4, Option 2, Nonpotable Water Source Use” with “WE Credit 4.2 Cooling Tower Water Management - Nonpotable Water Source Use”	4/14/2010
118	Nonpotable Water Supply	WEc4	Cooling Tower Water Management	In the first line of the third paragraph, replace “WE Credit 4, Option 1, Chemical Management” with “WE Credit 4.1 Cooling Tower Water Management – Chemical Management”	4/14/2010
118	Nonpotable Water Supply	WEc4	Cooling Tower Water Management	In the third line of the third paragraph, replace “WE Credit 4, Option 2, Nonpotable Water Source Use” with “WE Credit 4.2 Cooling Tower Water Management - Nonpotable Water Source Use”	4/14/2010
141*	CASE 1	EAp2	Minimum Energy Efficiency Performance	In the third line of the second paragraph, remove the text “both” and “and all comparable buildings used for the benchmark” so the paragraph becomes the following: “Have energy meters that measure all energy use throughout the performance period of all buildings to be certified. Each building’s energy performance must be based on actual metered energy consumption for the LEED project building(s). A full 12 months of continuous measured energy data is required.”	1/8/2010
141*	CASE 2, OPTION 1	EAp2	Minimum Energy Efficiency Performance	Replace the paragraph with the following text: Demonstrate energy efficiency performance that is better than 69% of similar buildings (69th percentile or better) by benchmarking against national source energy data provided in the Portfolio Manager tool as an alternative to energy performance ratings. Follow the detailed instructions in the LEED Reference Guide for Green Building Operations & Maintenance, 2009 Edition.	11/3/2010
141*	Case 2	EAp2	Minimum Energy Efficiency Performance	Add “with a primary space type” after “For buildings”	7/6/2012

Page	Location	Credit	Credit Title	Issue	Post Date
141*	Option 1	EAp2	Minimum Energy Efficiency Performance	Option 1 should read: "OPTION 1. Adjusted Benchmark Score"	7/6/2012
141*	Option 1	EAp2	Minimum Energy Efficiency Performance	Add the following sentence between the two existing sentences in the option: "Projects outside the U.S. may use a local benchmark based on source energy from their country's national or regional energy agency."	7/6/2012
141*	Option 2	EAp2	Minimum Energy Efficiency Performance	Option 2 should read: "OPTION 2. Alternative Score"	7/6/2012
141*	Option 2	EAp2	Minimum Energy Efficiency Performance	Remove the first sentence for this option.	7/6/2012
141*	Option 2	EAp2	Minimum Energy Efficiency Performance	<p>Add the following before AND: "Demonstrate energy efficiency performance by determining an alternative rating score using the Portfolio Manager tool to report the building's energy use data from the performance period. Follow the detailed instructions in the LEED Reference Guide for Green Building Operations & Maintenance, 2009 Edition.</p> <p>OPTION 2a. Streamlined Baseline (EAp2 only – 0 points) Enter energy use data during the performance period for at least 1 year into Portfolio Manager to determine the "weather-normalized source energy intensity". Use this value in the offline calculator to determine the percent reduction from the streamlined baseline.</p> <p>OPTION 2b. Energy Baseline Including Historical Data (up to 9 points) Enter at least 3 consecutive years of historical energy use data into Portfolio Manager in addition to the current year's data to determine the "weather-normalized source energy intensity" for each year. Use these values in the offline calculator to determine a baseline using the historical energy use data of the project building.</p> <p>OPTION 2c. Energy Baseline Including Historical Data plus Comparable Buildings (up to 18 points) In addition to the historical data used in Option 2b, provide energy use data for at least 3 other buildings with similar uses over at least a 2-year period to determine the "average energy performance of a similar building" in Portfolio Manager. Enter this data into the offline calculator."</p>	7/6/2012

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143	3. Summary of Referenced Standards	EAp2	Minimum Energy Efficiency Performance	Replace the text with "Refer to the Summary of Referenced Standards section in EA Credit 1."	11/3/2010
146	4. Implementation	EAp3	Fundamental Refrigerant Management	After the first sentence, add, "HCFCs are not part of this prerequisite."	5/9/2011
150	12. Definitions	EAp3	Fundamental Refrigerant Management	Replace the definition of " chlorofluorocarbons (CFCs) " with "a compound of carbon, hydrogen, chlorine and fluorine, once commonly used in refrigeration, that depletes the stratospheric ozone layer."	10/1/2012
151*	CASE 1	EAc1	Optimize Energy Performance	In the third line of the fourth paragraph, remove the text "both" and "and all comparable buildings used for the benchmark" so it becomes the following: "Have energy meters that measure all energy use throughout the performance period of buildings to be certified. Each building's energy performance must be based on actual metered energy consumption for the LEED project. A full 12 months of continuous measured energy data is required."	1/8/2010
151*	Case 2	EAc1	Optimize Energy Efficiency Performance	Add "with a primary space type" after "For buildings"	7/6/2012
151*	Option 1	EAc1	Optimize Energy Efficiency Performance	Add the following sentence between the two existing sentences in the option: "Projects outside the U.S. may use a local benchmark based on source energy from their country's national or regional energy agency."	7/6/2012
151*	Option 2	EAc1	Optimize Energy Efficiency Performance	The first paragraph of this option should read "For buildings not suited for Case 2, Option 1, Demonstrate energy efficiency performance by determining an alternative rating score using the Portfolio Manager tool to report the building's energy use data from the performance period. Follow the detailed instructions in the LEED Reference Guide for Green Building Operations & Maintenance, 2009 Edition."	7/6/2012

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151*	Option 2	EAc1	Optimize Energy Efficiency Performance	<p>Add the following after the first paragraph and before "AND": "OPTION 2a. Streamlined Baseline (EAp2 only – 0 points) This option is only available through EAp2. Enter energy use data during the performance period for at least 1 year into Portfolio Manager to determine the "weather-normalized source energy intensity". Use this value in the offline calculator to determine the percent reduction from the streamlined baseline.</p> <p>OPTION 2b. Energy Baseline Including Historical Data (up to 9 points) Enter at least 3 consecutive years of historical energy use data into Portfolio Manager in addition to the current year's data to determine the "weather-normalized source energy intensity" for each year. Use these values in the offline calculator to determine a baseline using the historical energy use data of the project building.</p> <p>OPTION 2c. Energy Baseline Including Historical Data plus Comparable Buildings (up to 18 points) In addition to the historical data used in Option 2b, provide energy use data for at least 3 other buildings with similar uses over at least a 2-year period to determine the "average energy performance of a similar building" in Portfolio Manager. Enter this data into the offline calculator."</p>	7/6/2012
152*	CASE 2, OPTION 1	EAc1	Optimize Energy Performance	<p>Replace the paragraph with the following text:</p> <p>Demonstrate energy efficiency performance that is better than 71% of similar buildings (71st percentile or better) by benchmarking against national source energy data provided in the Portfolio Manager tool as an alternative to energy performance ratings. Follow the detailed instructions in the LEED Reference Guide for Green Building Operations & Maintenance, 2009 Edition.</p>	11/3/2010
157	First paragraph on page (begins with "EPA continues")	EAc1	Optimize Energy Performance	Replace the last sentence of the paragraph with "If the location for an international project is not listed, consult ASHRAE 90.1-2007 Appendices B and D to determine a comparable US city."	11/3/2010
159	6. Calculations	EAc1	Optimize Energy Performance	Delete the last sentence in the second paragraph, "Renewable energy generated and consumed on-site is excluded from these calculations."	4/1/2012
160	CASE 2, OPTION 1: Adjusted Benchmark Score	EAc1	Optimize Energy Performance	In the fifth line of the first paragraph, replace "average" with "mean" so the text becomes "...better than the national mean to calculate..."	11/3/2010

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160	CASE 2, OPTION 2A	EAc1	Optimize Energy Performance	In header, remove the text "(maximum 2 points)" and replace with "(EAp2 compliance option)" so the text becomes "CASE 2, OPTION 2A: Streamlined Baseline (EAp2 compliance option)"	1/8/2010
161	CASE 2, OPTION 2B	EAc1	Optimize Energy Performance	In header, replace the "7" with a "9" so the text becomes "CASE 2, OPTION 2B: Energy Baseline Including Historical Data (maximum 9 points)"	1/14/2010
161	CASE 2, OPTION 2B	EAc1	Optimize Energy Performance	Remove the last paragraph "If this process results in fewer than 2 points under EA Credit 1, then a refined baseline in Option 2C should be considered."	8/1/2011
162	Recent Energy Efficiency Improvements	EAc1	Optimize Energy Performance	Remove the last line of the section's paragraph (starts with "If the minimum")	11/1/2011
163	Sharing Access to ENERGY STAR Portfolio Manager Data	EAc1	Optimize Energy Efficiency Performance	In this section, replace all instances of "USGBC" with "GBCI" so the text becomes: (see below text)	11/2/2009
<p>(text relating to above issue)</p> <p>Project teams have the option of sharing data directly from ENERGY STAR Portfolio Manager with GBCI to minimize the number of supporting documents that must be uploaded in the certification application. GBCI keeps these data in confidence and uses them for the sole purpose of verifying credit compliance. To share facility data, follow these steps:</p> <ol style="list-style-type: none"> 1. Log into Portfolio Manager and go to Home > My Portfolio. 2. Click on the "Share Facilities" link under "Work with Facilities." 3. Under "Select a Portfolio Manager Master Account," select "GBCI - LEED_EB:O&M" and click "Add and Modify." 4. Select the access rights being granted to the GBCI master account. It is recommended that project teams provide read-only access and not grant any of the option rights listed. Click "Continue." 5. Select the LEED EB: O&M project facility whose data you wish to share from the list of facilities in your account and click "Continue." 6. Review the confirmation page and click "Save." 7. You will be notified by e-mail when GBCI accepts the shared data into its master account. 					

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207	Implementation: Off-site Renewable Energy	EAc4	On-site and Off-Site Renewable Energy	<p>**Update October 1, 2014: Correction was issued in error and is reversed effective October 1, 2014.</p> <p>Revise first paragraph under "Off-site Renewable Energy" to read: "Purchase renewable energy, renewable energy certificates (RECs), to meet some or all of the building's energy requirements. Green power or renewable energy certificate purchases should be used to offset electricity and purchased steam/high temperature hot water and chilled water use only (Scope 2 emissions). Verified by Green-e Climate or equivalent, should be used to offset emissions from natural gas, propane, or fuel oil combusted on-site. Determine the annual energy needs of the building to identify the amount of green power necessary to satisfy the credit requirements. Purchase or commit to purchasing enough off-site renewable energy or carbon offsets to satisfy the building's annual energy consumption for 2 years. At the time of application, off-site energy and offsets must have actually been purchased for at least the performance period. Contracts or commitments for future purchases can meet the remainder of the 2-year requirement. Renewable energy and carbon offsets that qualify for this credit must be Green-e certified or equivalent."</p> <p>Revise first sentence under number 3. to read: "If Green-e certified power cannot be purchased through a local utility, the tenant and project team can purchase Green-e certified renewable energy certificates to cover electricity or purchased steam/high temperature hot water and chilled water consumption and/or Green-e certified offsets to cover other types of energy consumption (e.g. natural gas, propane, or fuel oil combusted on-site)."</p>	10/1/2013 10/1/2014
208	First paragraph (begins with "can purchase")	EAc4	On-Site and Off-Site Renewable Energy	In the third line, insert "of" after "purchase" so the text becomes "The purchase of Green-e certified RECs..."	11/3/2010
209	6. Calculations	EAc4	On-Site and Off-Site Renewable Energy	In the tenth line of the first paragraph, replace both instances of "25 MBtus" with "12.5 MBtus" so it becomes "...performance period is 12.5 MBtus for electricity and 12.5 MBtus for natural gas"	11/2/2009
210	Equation 1	EAc4	On-Site and Off-Site Renewable Energy	In the seventh line of the paragraph, replace "(1 MBtus/1,000 MBtus)" with "(10 MBtus/1,000 MBtus)"	11/3/2010

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211	11. Resources	EAc4	On-Site and Off-Site Renewable Energy	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
220	Table 2	EAc5	Enhanced Refrigerant Management	In the column header on the far right, replace "Absorption" with "Centrifugal" so the header becomes "23-Year Life (Screw, Centrifugal Chillers)"	11/3/2010
221	Paragraph that begins with "Refrigerant leakage"	EAc5	Enhanced Refrigerant Management	Add the following after the first sentence, "If new equipment is being installed, use a default leakage rate of 2%."	11/1/2011
221	Paragraph that begins with "Refrigerant leakage"	EAc5	Enhanced Refrigerant Management	Remove the last sentence: "Guidance for submitting approval for nondefault leakage rates can be found on the LEED Registered Project Tools page (http://www.usgbc.org/projecttools)."	11/3/2010
223	Sample Calculation 2	EAc5	Enhanced Refrigerant Management	In the first line of the first bullet item, replace "absorption" with "centrifugal"	11/3/2010
223	Sample Calculation 3	EAc5	Enhanced Refrigerant Management	In the first bullet item, replace "absorption" with "centrifugal"	11/3/2010
224	12. Definitions	EAc5	Enhanced Refrigerant Management	Replace the definition of " chlorofluorocarbons (CFCs) " with "a compound of carbon, hydrogen, chlorine and fluorine, once commonly used in refrigeration, that depletes the stratospheric ozone layer."	10/1/2012
225*	Requirements	EAc6	Emissions Reduction Reporting	Add "or carbon offsets" to the end of the second paragraph.	7/6/2012
225*	Requirements	EAc6	Emissions Reduction Reporting	The third paragraph should read: "Report emissions reductions using one of the following:"	7/6/2012
225*	Requirements	EAc6	Emissions Reduction Reporting	Add two bullets below the third paragraph. The first bullet should read: "A third-party voluntary reporting or certification program such as U.S. Environmental Protection Agency (EPA) Climate Leaders, ENERGY STAR, the Carbon Disclosure Project or World Resources Institute / World Business Council for Sustainable Development (WRI/WBCSD) protocols."	7/6/2012
225*	Requirements	EAc6	Emissions Reduction Reporting	The second bullet below the third paragraph should read: "International Organization for Standards (ISO) 14064-1:2006 Greenhouse gases, Part 1, Specification, with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals."	7/6/2012

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237	Table	n/a	n/a	In the fifth row, replace the text “MR Credit 2 Sustainable Purchasing – Durable Goods” with “MR Credit 2.1 Sustainable Purchasing – Electric-Powered Equipment” and, below as a new row, “MR Credit 2.2 Sustainable Purchasing – Furniture”	4/14/2010
239*	Requirements	MRp1	Sustainable Purchasing Policy	In the first bulleted item, replace the text “MR Credit 2: Sustainable Purchasing – Durable Goods” with “MR Credit 2.1: Sustainable Purchasing – Electric-Powered Equipment” and, below as a new bulleted item, “MR Credit 2.2: Sustainable Purchasing – Furniture”	4/14/2010
240	2. Related Credits	MRp1	Sustainable Purchasing Policy	In the second bulleted item, replace the text “MR Credit 2: Sustainable Purchasing – Durable Goods” with “MR Credit 2.1: Sustainable Purchasing – Electric-Powered Equipment” and, below as a new bulleted item, “MR Credit 2.2: Sustainable Purchasing – Furniture”	4/14/2010
241	4. Implementation	MRp1	Sustainable Purchasing Policy	In the second paragraph, replace the third sentence with the following: The sustainable purchasing policy must adhere to the LEED 2009 for Existing Buildings: Operations & Maintenance policy model located in the Introduction section of this Reference Guide.	7/19/2010
249	11. Resources	MRp2	Solid Waste Management Policy	Replace "U.S. EPA WasteWise Program" title, website and description with the following: U.S. EPA WasteWise Program www.epa.gov/wastewise WasteWise is a free, voluntary EPA program that U.S. organizations can use to track, manage, and reduce their municipal solid waste and select industrial wastes.	5/9/2011
251*	Requirements	MRC1	Sustainable Purchasing - Ongoing Consumables	In the fifth line of the first paragraph, remove the second period following "Food" so the text becomes "...Sustainable Purchasing - Food. For materials..."	1/8/2010
251*	Requirements	MRC1	Sustainable Purchasing - Ongoing Consumables	In the sixth line of the first paragraph, replace the text “(see MR Credit 2)” with “(see MR Credits 2.1 and 2.2)”	4/14/2010
251*	Requirements	MRC1	Sustainable Purchasing - Ongoing Consumables	In the seventh line of the first paragraph, replace the text “Credit 2” with “Credits 2.1 and 2.2”	4/14/2010

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251*	Requirements	MRC1	Sustainable Purchasing - Ongoing Consumables	In the first line of the second paragraph, replace the text "A template calculator for MR Credit 1 is available in the LEED Reference Guide for Green Building operations & Maintenance, 2009 Edition" with the following: "A template calculator for MR Credit 1 is available in LEED Online 3 as a credit submittal"	1/8/2010
251*	Requirements	MRC1	Sustainable Purchasing – Ongoing Consumables	The third bullet should read: "Purchases contain at least 50% materials harvested and processed or extracted and processed within a 500 mile (800 kilometer) radius of the project. Building materials or products shipped by rail or water have been extracted, harvested or recovered, as well as manufactured within a 500 mile (800 kilometer) total travel distance of the project site using a weighted average determined through the following formula: (Distance by rail/3) + (Distance by inland waterway/2) + (Distance by sea/15) + (Distance by all other means) ≤ 500 miles [800 kilometers]"	7/6/2012
252	2. Related Credits	MRC1	Sustainable Purchasing - Ongoing Consumables	In the third line of the first paragraph, replace "MR Credit 2: Durable Goods" with "MR Credit 2.1: Sustainable Purchasing – Electric-Powered Equipment and MR Credit 2.2: Sustainable Purchasing – Furniture"	4/14/2010
257	12. Definitions	MRC1	Sustainable Purchasing - Ongoing Consumables	Replace the definition of " chain-of-custody (COC) " with "the path taken by raw materials, processed materials, and products from the forest to the consumer, including all successive stages of processing, transformation, manufacturing and distribution. A chain-of-custody certificate number on invoices for nonlabeled products indicates that the certifier's guidelines for product accounting have been followed. A chain-of-custody certification is not required by distributors of a product that is individually labeled with the Forest Stewardship Council logo and manufacturer's chain-of-custody number. Chain of Custody (CoC) certification requirements are determined by Forest Stewardship Council Chain of Custody Standard 40-004 v2-1."	10/1/2012
259-267*	n/a	MRC2	Sustainable Purchasing - Durable Goods	Replace all instances of "MR Credit 2" and "Credit 2" with "MR Credits 2.1 – 2.2" and "Credits 2.1 – 2.2" respectively	2/1/2010

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259*	Requirements	MRC2	Sustainable Purchasing - Durable Goods	<p>Remove the following text:</p> <p>OPTION 1. Electric-Powered Equipment (1 point)</p> <p>Achieve sustainable purchases of at least 40% of total purchases of electric-powered equipment¹ (by cost) during the performance period. Sustainable purchases shall meet 1 of the following criteria:</p> <p>Replace with:</p> <p>MR Credit 2.1 (one point): Electric-Powered Equipment.</p> <p>Achieve sustainable purchases of at least 40% of total purchases of electric-powered equipment (by cost) during the performance period. Examples of electric-powered equipment include, but are not limited to, office equipment (computers, monitors, copiers, printers, scanners, fax machines), appliances (refrigerators, dishwashers, water coolers), external power adapters, and televisions and other audiovisual equipment. Sustainable purchases are those that meet one of the following criteria:</p>	2/1/2010
259*	Requirements	MRC2	Sustainable Purchasing - Durable Goods	<p>Remove the following text:</p> <p>OR</p> <p>OPTION 2. Furniture (1 point)</p> <p>Achieve sustainable purchases of at least 40% of total purchases of furniture (by cost) during the performance period. Sustainable purchases shall meet 1 or more of the following criteria:</p> <p>Replace with:</p> <p>AND/OR</p> <p>MR Credit 2.2 (one point): Furniture.</p> <p>Achieve sustainable purchases of at least 40% of total purchases of furniture (by cost) during the performance period. Sustainable purchases are those that meet one or more of the following criteria:</p>	2/1/2010
259*	Requirements	MRC2	Sustainable Purchasing - Durable Goods	<p>Remove the following text:</p> <p>OR</p> <p>OPTION 3. Combination (2 points)</p> <p>Achieve the requirements of both Option 1 & Option 2.</p>	2/1/2010

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259*	Requirements	MRc2.1 MRc2.2	Sustainable Purchasing – Durable Goods	Add a third bullet under MRc2.1 that reads: "Projects outside the U.S. may demonstrate the equipment is equal to or more stringent than ENERGY STAR® qualified through use of local equivalencies."	7/6/2012
259*	Requirements	MRc2.1 MRc2.2	Sustainable Purchasing – Durable Goods	The 6th bullet under MRc2.2 should read: "Purchases contain at least 50% material harvested and processed or extracted and processed within a 500 mile (800 kilometer) radius of the project. Building materials or products shipped by rail or water have been extracted, harvested or recovered, as well as manufactured within a 500 mile (800 kilometer) total travel distance of the project site using a weighted average determined through the following formula: (Distance by rail/3) + (Distance by inland waterway/2) + (Distance by sea/15) + (Distance by all other means) ≤ 500 miles [800 kilometers]"	7/6/2012
265	9. Exemplary Performance	MRc2	Sustainable Purchasing - Durable Goods	Remove the entire section's text and replace with the following: Project teams can earn an additional point by meeting 1 of the following requirements: For MR Credit 2.1, project teams can earn 1 additional point by increasing sustainable purchases of electrical equipment to 80% of total electronics purchases. Or, project teams can earn 1 additional point by purchasing EPEAT-rated desktops, laptops and monitors for 40% of their durable goods total. For MR Credit 2.2, project teams can earn 1 additional point by increasing sustainable purchases of furniture to 80% of total furniture purchases.	11/2/2009 (updated 4/14/2010)
266	12. Definitions	MRc2.1	Sustainable Purchasing-Durable Goods - Electric	Replace the definition of "chain-of-custody (COC)" with "the path taken by raw materials, processed materials, and products from the forest to the consumer, including all successive stages of processing, transformation, manufacturing and distribution. A chain-of-custody certificate number on invoices for nonlabeled products indicates that the certifier's guidelines for product accounting have been followed. A chain-of-custody certification is not required by distributors of a product that is individually labeled with the Forest Stewardship Council logo and manufacturer's chain-of-custody number. Chain of Custody (CoC) certification requirements are determined by Forest Stewardship Council Chain of Custody Standard 40-004 v2-1."	10/1/2012
266	12. Definitions	MRc2.1	Sustainable Purchasing-Durable Goods - Electric	Replace the definition of " postconsumer material " with "waste generated by end users (households or commercial, industrial and institutional facilities) of a product no longer able to be used for its intended purpose that is recycled into raw material for a new product."	10/1/2012

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269*	Requirements	MRC3	Sustainable Purchasing – Facility Alterations and Additions	The 6th bullet should read: "Purchases contain at least 50% material harvested and processed or extracted and processed within a 500 miles (800 kilometers) radius of the project. Building materials or products shipped by rail or water have been extracted, harvested or recovered, as well as manufactured within a 500 mile (800 kilometer) total travel distance of the project site using a weighted average determined through the following formula: (Distance by rail/3) + (Distance by inland waterway/2) + (Distance by sea/15) + (Distance by all other means) ≤ 500 miles [800 kilometers]"	7/6/2012
269*	Requirements	MRC3	Sustainable Purchasing – Facility Alterations and Additions	The 9th bullet should read: Noncarpet finished flooring meets one of the following requirements and constitutes a minimum of 25% of the finished floor area:"	7/6/2012
269*	Requirements	MRC3	Sustainable Purchasing – Facility Alterations and Additions	Add three new bullets, indented, after the 9th bullet:	7/6/2012
269*	Requirements	MRC3	Sustainable Purchasing – Facility Alterations and Additions	The first new indented bullet should read: "Is FloorScore-certified."	7/6/2012
269*	Requirements	MRC3	Sustainable Purchasing – Facility Alterations and Additions	The second new indented bullet should read: "Maximum VOC concentrations are less than or equal to those specified in 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, using the office scenario as defined in Table 7.5 within the practice."	7/6/2012
269*	Requirements	MRC3	Sustainable Purchasing – Facility Alterations and Additions	The third new indented bullet should read: "Maximum VOC concentrations meet the California requirements specified above based on the following:"	7/6/2012
269*	Requirements	MRC3	Sustainable Purchasing – Facility Alterations and Additions	Add two new bullets, indented further, after the third new indented bullet:	7/6/2012
269*	Requirements	MRC3	Sustainable Purchasing – Facility Alterations and Additions	The first new indented bullet should read: "California Department of Public Health (CDPH) Standard Method V1.1-2010 using test results obtained at the 14 day time point"	7/6/2012

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269*	Requirements	MRc3	Sustainable Purchasing – Facility Alterations and Additions	The second new indented bullet should read: "Projects outside the U.S. may use the German AgBB/DIBt testing method and all testing methods based on AgBB/DIBt method (GUT, EMICODE, Blue Angel) using test results obtained at the 3 day or 7 day or 14 day time point. For caprolactam, if test results obtained at the 3 day or 7 day time point is used, the emission concentration must be less than ½ of the concentration limit specified above because the emission may not have peaked at the measured time points. If a European testing method (AgBB/DIBt GUT, EMICODE, Blue Angel) had used parameters for calculating test results different from those specified in the referenced California method, then the European test results for carpets or floorings need to be converted into California air concentrations by multiplication with 0.7."	7/6/2012
269*	Requirements	MRc3	Sustainable Purchasing – Facility Alterations and Additions	The tenth original bullet should read: "Carpet meets one of the following requirements:"	7/6/2012
269*	Requirements	MRc3	Sustainable Purchasing – Facility Alterations and Additions	Add three new bullets, indented, after the 10th bullet:	7/6/2012
269*	Requirements	MRc3	Sustainable Purchasing – Facility Alterations and Additions	The first new indented bullet should read: "Meets CRI Green Label Plus Carpet Testing Program"	7/6/2012
269*	Requirements	MRc3	Sustainable Purchasing – Facility Alterations and Additions	The second new indented bullet should read: "Maximum VOC concentrations are less than or equal to those specified in 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, using the office scenario as defined in Table 7.5 within the practice. The additional VOC concentration limits listed in Section 9.1a must also be met"	7/6/2012
269*	Requirements	MRc3	Sustainable Purchasing – Facility Alterations and Additions	The third new indented bullet should read: "Maximum VOC concentrations meet the California requirements specified above based on the following:"	7/6/2012
269*	Requirements	MRc3	Sustainable Purchasing – Facility Alterations and Additions	Add two new bullets, indented further, after the third new indented bullet:	7/6/2012

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269*	Requirements	MRc3	Sustainable Purchasing – Facility Alterations and Additions	The first new indented bullet should read: "California Department of Public Health (CDPH) Standard Method V1.1-2010 using test results obtained at the 14 day time point"	7/6/2012
269*	Requirements	MRc3	Sustainable Purchasing – Facility Alterations and Additions	The second new indented bullet should read: "Projects outside the U.S. may use the German AgBB/DIBt testing method and all testing methods based on AgBB/DIBt method (GUT, EMICODE, Blue Angel) using test results obtained at the 3 day or 7 day or 14 day time point. For caprolactam, if test results obtained at the 3 day or 7 day time point is used, the emission concentration must be less than ½ of the concentration limit specified above because the emission may not have peaked at the measured time points. If a European testing method (AgBB/DIBt GUT, EMICODE, Blue Angel) had used parameters for calculating test results different from those specified in the referenced California method, then the European test results for carpets or floorings need to be converted into California air concentrations by multiplication with 0.7."	7/6/2012
272	3. Summary of Referenced Standards	MRc3	Sustainable Purchasing-Facility Alterations and Additions	Under "Carpet and Rug Institute (RCI) Green Label Plus Testing Program, replace " http://www.carpet-rug.com " with " http://www.carpet-rug.org ."	10/1/2012
281	12. Definitions	MRc3	Sustainable Purchasing-Facility Alterations and Additions	Replace the definition of " chain-of-custody (COC) " with "the path taken by raw materials, processed materials, and products from the forest to the consumer, including all successive stages of processing, transformation, manufacturing and distribution. A chain-of-custody certificate number on invoices for nonlabeled products indicates that the certifier's guidelines for product accounting have been followed. A chain-of-custody certification is not required by distributors of a product that is individually labeled with the Forest Stewardship Council logo and manufacturer's chain-of-custody number. Chain of Custody (CoC) certification requirements are determined by Forest Stewardship Council Chain of Custody Standard 40-004 v2-1."	10/1/2012
281	12. Definitions	MRc3	Sustainable Purchasing-Facility Alterations and Additions	Replace the definition of " volatile organic compounds (VOC's) " with "a carbon compound that vaporizes (becomes a gas) at normal room temperatures. VOCs contribute to air pollution directly and through atmospheric photochemical reactions (excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides and carbonates, and ammonium carbonate) to produce secondary air pollutants, principally ozone and peroxyacetyl nitrate."	10/1/2012

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283*	Requirements	MRC4	Sustainable Purchasing—Reduced Mercury in Lamps	Projects in Europe may exclude CFLs if they comply with the criteria listed in Annex III of the Restriction of the Use of Certain Hazardous Substances of the European Union Directive (EU RoHS.) Screw-based, integral CFLs that do not comply with the NEMA guidelines (or EU RoHS for projects in Europe) must be included in the purchasing plan and the performance calculation.	7/1/2013
283*	Requirements	MRC4	Sustainable Purchasing - Mercury in Lamps	*Update from addenda issue ID# 100000250, originally posted 1/8/2010* Remove the third paragraph. In the first line of the third paragraph, remove "template calculator to aid in documenting performance" and replace with "sample calculation" so the text becomes "A sample calculation for this credit is available..."	1/8/2010 (Updated 8/1/2011)
291*	Requirements	MRC5	Sustainable Purchasing - Food	In the first bullet, remove "or" between "Fair Trade" and "Marine Stewardship Council's Blue Eco-Label"	7/6/2012
291*	Requirements	MRC5	Sustainable Purchasing - Food	In the first bullet, add "or are labeled with the European Community Organic Production logo in accordance with Regulations (EC) No 834/2007 and (EC) No 889/2008." after "Marine Stewardship Council's Blue Eco-Label"	7/6/2012
300	2. Related Credits	MRC6	Solid Waste Management – Waste Stream Audit	In the second bulleted item, replace the text "MR Credit 2: Sustainable Purchasing – Durable Goods" with "MR Credit 2.1: Sustainable Purchasing – Electric-Powered Equipment" and, below as a new bulleted item, "MR Credit 2.2: Sustainable Purchasing – Furniture"	4/14/2010
304	11. Resources	MRC6	Solid Waste Management – Waste Stream Audit	Replace "U.S. EPA WasteWise Program" title, website and description with the following: U.S. EPA WasteWise Program www.epa.gov/wastewise WasteWise is a free, voluntary EPA program that U.S. organizations can use to track, manage, and reduce their municipal solid waste and select industrial wastes.	5/9/2011
306	2. Related Credits	MRC7	Solid Waste Management – Ongoing Consumables	In the second bulleted item, replace the text "MR Credit 2: Sustainable Purchasing – Durable Goods" with "MR Credit 2.1: Sustainable Purchasing – Electric-Powered Equipment" and, below as a new bulleted item, "MR Credit 2.2: Sustainable Purchasing – Furniture"	4/14/2010

Page	Location	Credit	Credit Title	Issue	Post Date
309	11. Resources	MRC7	Solid Waste Management – Ongoing Consumables	Replace "U.S. EPA WasteWise Program" title, website and description with the following: U.S. EPA WasteWise Program www.epa.gov/wastewise WasteWise is a free, voluntary EPA program that U.S. organizations can use to track, manage, and reduce their municipal solid waste and select industrial wastes.	5/9/2011
311*	Requirements	MRC8	Solid Waste Management – Durable Goods	In the last line of the first paragraph, replace the text "MR Credit 2: Sustainable Purchasing – Durable Goods" with "MR Credit 2.1: Sustainable Purchasing – Electric-Powered Equipment and MR Credit 2.2: Sustainable Purchasing – Furniture"	4/14/2010
312	2. Related Credits	MRC8	Solid Waste Management – Durable Goods	In the second bulleted item, replace the text "MR Credit 2: Sustainable Purchasing – Durable Goods" with "MR Credit 2.1: Sustainable Purchasing – Electric-Powered Equipment" and, below as a new bulleted item, "MR Credit 2.2: Sustainable Purchasing – Furniture"	4/14/2010
314	9. Exemplary Performance	MRC8	Solid Waste Management – Durable Goods	Remove the text and replace with "Project teams can earn an additional point by diverting 95% or more of waste generated by durable goods from disposal to landfills and incineration facilities."	4/14/2010
315	11. Resources	MRC8	Solid Waste Management – Durable Goods	Replace "U.S. EPA WasteWise Program" title, website and description with the following: U.S. EPA WasteWise Program www.epa.gov/wastewise WasteWise is a free, voluntary EPA program that U.S. organizations can use to track, manage, and reduce their municipal solid waste and select industrial wastes.	5/9/2011
318	2. Related Credits	MRC9	Solid Waste Management – Facility Alterations and Additions	In the second bulleted item, replace the text "MR Credit 2: Sustainable Purchasing – Durable Goods" with "MR Credit 2.1: Sustainable Purchasing – Electric-Powered Equipment" and, below as a new bulleted item, "MR Credit 2.2: Sustainable Purchasing – Furniture"	4/14/2010
329*	Requirements	IEQp1	Minimum Indoor Air Quality Performance	Case 1 should read: "CASE 1. Projects Able to Meet Standard"	7/6/2012

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329*	Case 1	IEQp1	Minimum Indoor Air Quality Performance	Add new Option title that reads: "OPTION 1. ASHRAE Standard 62.1-2007 or Non-U.S. Equivalent"	7/6/2012
329*	Case 1, Option 1	IEQp1	Minimum Indoor Air Quality Performance	"Ventilation Rate Procedure" should be changed to "ventilation rate procedure"	7/6/2012
329*	Case 1, Option 1	IEQp1	Minimum Indoor Air Quality Performance	Option 1 should include the original paragraph for case 1 with the following sentence at the end: "Projects outside the U.S. may use a local equivalent to ASHRAE Standard 62.1-2007 for breathing zone minimum ventilation rates."	7/6/2012
329*	Case 1	IEQp1	Minimum Indoor Air Quality Performance	Add new Option title that reads: "OPTION 2. CEN Standard EN 15251: 2007"	7/6/2012
329*	Case 1, Option 2	IEQp1	Minimum Indoor Air Quality Performance	Option 2 should read: "Projects outside the U.S. may modify or maintain each outside air intake, supply air fan and/or ventilation distribution system to supply at least the outdoor air ventilation rate required by Annex B of Comité Européen de Normalisation (CEN) Standard EN 15251: 2007, Indoor environmental input parameters for design and assessment of energy performance of buildings addressing indoor air quality, thermal environment, lighting and acoustics."	7/6/2012
329*	Case 2	IEQp1	Minimum Indoor Air Quality Performance	Case 2 should read: "CASE 2. Projects Unable to Meet the Standard"	7/6/2012
329*	Case 2	IEQp1	Minimum Indoor Air Quality Performance	The first paragraph of case 2 should read: "If meeting the ventilation rates required of the above standards is infeasible because of the physical constraints of the existing ventilation system, modify or maintain the system to supply at least 10 cubic feet per minute (cfm) (5 liters per second) of outdoor air per person under all normal operating conditions. Demonstrate through design documentation, measurements or other evidence that the current system cannot provide the flow rates required by the above standards under any operating condition even when functioning properly."	7/6/2012
329*	Case 2	IEQp1	Minimum Indoor Air Quality Performance	In the second paragraph of case 2 replace "ASHRAE Standard 62.1-2007 (with errata but without addenda)" with "the above standards"	7/6/2012

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337	12. Definitions, Breathing zone	IEQp1	Minimum Indoor Quality Performance	Replace the text with " Breathing zone is the region within an occupied space between 3 and 6 feet above the floor. Note that this definition varies from that of ASHRAE 62.1-2007, which states that the breathing zone is between 3 inches and 6 feet from the floor, and 2 feet from the walls as well as fixed air conditioning equipment."	4/14/2010
339*	Case 2	IEQp2	Environmental Tobacco Smoke (ETS) Control	Add the following sentence to the end of the 6th bullet: "Projects outside the U.S. may use a local equivalent to ANSI/ASTM-E779-03, Standard Test Method for Determining Air Leakage Rate By Fan Pressurization."	7/6/2012
339*	Case 2	IEQp2	Environmental Tobacco Smoke (ETS) Control	The 7th bullet should read: "Use the progressive sampling methodology defined in Chapter 7 (Home Energy Rating Systems, HERS Required Verification and Diagnostic Testing) of the California Residential Alternative Calculation Method Approval Manual. Projects outside the U.S. may use a local sampling methodology, whichever is more stringent. Residential units must demonstrate less than 1.25 square inches of leakage area per 100 square feet (8 square centimeters of leakage area per 10 square meters) of enclosure area (i.e., the sum of all wall, ceiling and floor areas)."	7/6/2012
339*	Requirements	IEQp2	Environmental Tobacco Smoke (ETS) Control	Remove the text "CASE 1. Non-Residential Projects" and insert below the text "OPTION 2"	4/14/2010
340*	Second bulleted item	IEQp2	Environmental Tobacco Smoke (ETS) Control	Replace the text "leakage from outdoors" with "air leakage into the hallway" so the text becomes "Weather-strip all doors in the residential units leading to common hallways to minimize air leakage into the hallway□."	4/14/2010
340*	End of page	IEQp2	Environmental Tobacco Smoke (ETS) Control	At the end of page, insert the footnote "□If the common hallways are pressurized with respect to the residential units then doors in the residential units leading to the common hallways need not be weather-stripped provided that the positive differential pressure is demonstrated as in Option 2, Case 1 above, considering the residential unit as the smoking room."	4/14/2010
342	3. Summary of Referenced Standards	IEQp2	Environmental Tobacco Smoke (ETS) Control	In the second resource listed, replace the website " http://www.energy.ca.gov/HERS/%20 " with " http://www.energy.ca.gov/title24/2005standards/residential_acm/index.html "	4/14/2010
344	10. Regional Variations	IEQp2	Environmental Tobacco Smoke (ETS) Control	In the text above the figure, add footnote "34" so the text becomes " Figure 3. Smoking Bans, by State □"	11/2/2009
345	12. Definitions	IEQp2	Environmental Tobacco Smoke (ETS) Control	Insert the term "Lodging" in alphabetical order with the accompanying text " Lodging are facilities that provide overnight accommodations to customers or guests, including hotels, motels, inns and resorts."	12/2/2009

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361*	Case 2	IEQc1.2	Indoor Air Quality Best Management Practices – Outdoor Air Delivery Monitoring	The final paragraph of Case 2 should read: "CO2 sensors may be used for demand-controlled ventilation provided the control strategy complies with ASHRAE Standard 62.1-2007 Ventilation Rate Procedure (see IEQ Prerequisite 1: Minimum Indoor Air Quality Performance, including maintaining the area-based component of the design ventilation rate)."	7/6/2012
365	Ventilation Airflow Monitoring in Nondensely Occupied Spaces	IEQc1.2	Indoor Air Quality Best Management Practices – Outdoor Air Delivery Monitoring	Delete the last sentence in the section, "Outdoor air delivery monitoring within nondensely occupied spaces may be counted..."	5/9/2011
366	6. Calculations	IEQc1.2	Indoor Air Quality Best Management Practices - Outdoor Air Delivery Monitoring	Replace calculation steps 2 and 3 with the following: 2. For densely occupied spaces, document compliance with Case 2. 3. For all AHUs, document compliance with Case 1. Use Table 2 to identify each AHU, the presence of appropriate monitoring for that unit, and the minimum required outdoor airflow for that unit (as generated via compliance with IEQ Prerequisite 1). Use Equation 2 to calculate the portion of the building's total outdoor air intake flow serving occupied spaces.	4/1/2013
368	12. Definitions, Breathing zone	IEQc1.2	Indoor Air Quality Best Management Practices – Outdoor Air Delivery Monitoring	Replace the text with " Breathing zone is the region within an occupied space between 3 and 6 feet above the floor. Note that this definition varies from that of ASHRAE 62.1-2007, which states that the breathing zone is between 3 inches and 6 feet from the floor, and 2 feet from the walls as well as fixed air conditioning equipment."	4/14/2010
369	12. Definitions,	IEQc1.2	Indoor Air Quality Best Management Practices – Outdoor Air Delivery Monitoring	Revise the definition for densely occupied spaces to be, "Densely occupied spaces are areas with a design occupant density of 25 people or more per 1,000 square feet (40 square feet or less per person)."	11/1/2011
369	12. Definitions,	IEQc1.2	Indoor Air Quality Best Management Practices – Outdoor Air Delivery Monitoring	In alphabetical order, add the following definition for non-densely occupied space , "Non-densely occupied spaces are areas with a design occupant density of less than 25 people per 1,000 square feet (40 square feet or more per person)."	11/1/2011
369	12. Definitions,	IEQc1.2	Indoor Air Quality Best Management Practices – Outdoor Air Delivery Monitoring	In alphabetical order, add the following definition for nonoccupied spaces , "Nonoccupied spaces are defined as spaces designed for equipment and machinery or storage with no human occupancy except for maintenance, repairs, and equipment retrieval."	11/1/2011

Page	Location	Credit	Credit Title	Issue	Post Date
369	12. Definitions,	IEQc1.2	Indoor Air Quality Best Management Practices – Outdoor Air Delivery Monitoring	In alphabetical order, add the following definition for occupied spaces , "Occupied Spaces are defined as enclosed spaces that can accommodate human activities. Occupied spaces are further classified as regularly occupied or non-regularly occupied spaces based on the duration of the occupancy, individual or multi-occupant based on the quantity of occupants, and densely or non-densely occupied spaces based upon the concentration of occupants in the space."	11/1/2011
371*	CASE 2	IEQc1.3	Indoor Air Quality Best Management Practices – Increased Ventilation	In the first paragraph, remove the text "Design natural ventilation systems for occupied spaces to meet the recommendations set forth in the Carbon Trust "Good Practice Guide 237" (1998)."	12/2/2009
371*	OPTION 1	IEQc1.3	Indoor Air Quality Best Management Practices – Increased Ventilation	Remove the text in the paragraph and insert: "Show that the natural ventilation systems design meets the recommendations set forth in the CIBSE manuals appropriate to the project space. PATH 1. CIBSE Applications Manual 10: 2005, Natural Ventilation in Non-domestic Buildings. PATH 2. CIBSE AM 13:2000, Mixed Mode Ventilation."	12/2/2009
371*	Case 1	IEQc1.3	Indoor Air Quality Best Management Practices – Increased Ventilation	Add an Option title before the first paragraph that reads: "OPTION 1. ASHRAE Standard 62.1-2007 or Non-U.S. Equivalent"	7/6/2012
371*	Case 1, Option 1	IEQc1.3	Indoor Air Quality Best Management Practices – Increased Ventilation	Add the following to the end of the first sentence: "as determined by IEQ Prerequisite 1: Minimum Indoor Air Quality Performance."	7/6/2012
371*	Case 1, Option 1	IEQc1.3	Indoor Air Quality Best Management Practices – Increased Ventilation	After the first sentence, add the following: "Projects outside the U.S. may use a local equivalent to ASHRAE Standard 62.1-2007 if used in IEQ Prerequisite 1: Minimum Indoor Air Quality Performance. Projects pursuing a local equivalent must apply the Ventilation Rate Procedure, as defined by ASHRAE 62.1-2007, to the ventilation values taken from the local equivalent to ASHRAE 62.1-2007."	7/6/2012
371*	Case 1	IEQc1.3	Indoor Air Quality Best Management Practices – Increased Ventilation	Add an Option title after the first paragraph that reads: "OPTION 2. CEN Standard EN 15251: 2007"	7/6/2012

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371*	Case 1, Option 2	IEQc1.3	Indoor Air Quality Best Management Practices – Increased Ventilation	Option 2 should read: "Projects outside the U.S. may increase breathing zone outdoor air ventilation rates to all occupied spaces by at least 30% above the minimum rates required by Annex B of Comité Européen de Normalisation (CEN) Standard EN 15251: 2007, Indoor environmental input parameters for design and assessment of energy performance of buildings, addressing indoor air quality, thermal environment, lighting and acoustics, determined by IEQ Prerequisite 1, Minimum Indoor Air Quality Performance."	7/6/2012
371*	Case 2, Option 1	IEQc1.3	Indoor Air Quality Best Management Practices – Increased Ventilation	Case 2, Option 1 should read: "OPTION 1. CIBSE or Non-U.S. Equivalent"	7/6/2012
371*	Case 2, Option 1	IEQc1.3	Indoor Air Quality Best Management Practices – Increased Ventilation	Add the following sentence to the end of Path 1. "Projects outside the U.S. may use a local equivalent."	7/6/2012
371*	Case 2, Option 1	IEQc1.3	Indoor Air Quality Best Management Practices – Increased Ventilation	Add the following sentence to the end of Path 2. "Projects outside the U.S. may use a local equivalent."	7/6/2012
371*	Case 2, Option 2	IEQc1.3	Indoor Air Quality Best Management Practices – Increased Ventilation	Case 2, Option 2 should read: "OPTION 2. Airflow Model"	7/6/2012
371*	Case 2, Option 2	IEQc1.3	Indoor Air Quality Best Management Practices – Increased Ventilation	In the first sentence, replace "Chapter" with "section" after "ASHRAE Standard 62.1-2007"	7/6/2012
371*	Case 2, Option 2	IEQc1.3	Indoor Air Quality Best Management Practices – Increased Ventilation	Add the following sentence to the end of the paragraph. "Projects outside the U.S. may use Annex B of Comité Européen de Normalisation (CEN) Standard EN 15251: 2007 or a local equivalent to section 6 of ASHRAE Standard 62.1-2007 to define the minimum ventilation rates."	7/6/2012
373	3. Summary of Referenced Standards	IEQc1.3	Indoor Air Quality Best Management Practices – Increased Ventilation	Remove the following text in the section: (see below text)	12/2/2009

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	<p>(text relating to above issue)</p> <p>The Carbon Trust Good Practice Guide 237: Natural Ventilation in Non-Domestic Buildings — A Guide for Designers; Developers and Owners (1998) http://www.carbontrust.co.uk According to the Carbon Trust, “Carefully designed, naturally ventilated buildings can be cheaper to construct, maintain and operate than more heavily serviced equivalents. Occupants generally prefer windows that can be opened, and natural light, both of which are features of well designed, naturally ventilated buildings. The Guide summarizes the benefits of natural ventilation and considers the commercial implications, illustrating the issues by means of case studies.”</p> <p>To obtain a copy, search for “GPG 237” on the Carbon Trust Energy website or go to www.carbontrust.co.uk/Publications/publicationdetail.htm?productid=GPG237&metaNoCache=1.</p>				
379*	Requirements	IEQc1.4	Indoor Air Quality Best Management Practices – Reduce Particulates in Air Distribution	<p>Replace the paragraph with the following:</p> <p>In mechanically ventilated buildings, each ventilation system that supplies outdoor air shall comply with the following during the performance period:</p> <ul style="list-style-type: none"> • Particle filters or air cleaning devices shall clean the outdoor air at any location prior to its introduction to occupied spaces. • These filters or devices shall be rated a minimum efficiency reporting value (MERV) of 13 in accordance with ASHRAE Standard 52.2 or greater for all outside air intakes and inside air recirculation returns. • Establish and follow a regular schedule for maintenance and replacement of these filtration media according to the manufacturer’s recommended interval. 	11/3/2010
379*	Requirements	IEQc1.4	Indoor Air Quality Best Management Practices – Reduce Particulates in Air Distribution	The second bullet should read "These filters or devices shall meet one of the following criteria for all outside air intakes and inside air recirculation returns:"	7/6/2012
379*	Requirements	IEQc1.4	Indoor Air Quality Best Management Practices – Reduce Particulates in Air Distribution	Under the second bullet, add three bullets, indented:	7/6/2012

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379*	Requirements	IEQc1.4	Indoor Air Quality Best Management Practices – Reduce Particulates in Air Distribution	The first new bullet should read: "Filtration Media is rated a minimum efficiency reporting value (MERV) of 13 in accordance with ASHRAE Standard 52.2 or greater"	7/6/2012
379*	Requirements	IEQc1.4	Indoor Air Quality Best Management Practices – Reduce Particulates in Air Distribution	The second new bullet should read: "Filtration media is Class F7 or higher, as defined by CEN Standard EN 779: 2002, Particulate air filters for general ventilation, Determination of the filtration performance"	7/6/2012
379*	Requirements	IEQc1.4	Indoor Air Quality Best Management Practices – Reduce Particulates in Air Distribution	The third new bullet should read: "Filtration media has a minimum dust spot efficiency of 80% or higher and greater than 98% arrestance on a particle size of 3–10 µg."	7/6/2012
382	Definitions	IEQc1.4	Indoor Air Quality Best Management Practices – Reduce Particulates in Air Distribution	In alphabetical order, add the following definition for nonoccupied spaces , "Nonoccupied spaces are defined as spaces designed for equipment and machinery or storage with no human occupancy except for maintenance, repairs, and equipment retrieval."	11/1/2011
382	Definitions	IEQc1.4	Indoor Air Quality Best Management Practices – Reduce Particulates in Air Distribution	In alphabetical order, add the following definition for occupied spaces , "Occupied Spaces are defined as enclosed spaces that can accommodate human activities. Occupied spaces are further classified as regularly occupied or non-regularly occupied spaces based on the duration of the occupancy, individual or multi-occupant based on the quantity of occupants, and densely or non-densely occupied spaces based upon the concentration of occupants in the space."	11/1/2011
383*	Requirements	IEQc1.5	Indoor Air Quality Best Management Practices - Indoor Air Quality Management for Facility Alterations and Additions	The fourth bullet should read "If permanently installed air-handlers must be used during construction, filtration media must be used at each return air grille and must meet one of the following criteria below. Replace all filtration media immediately prior to occupancy."	7/6/2012
383*	Requirements	IEQc1.5	Indoor Air Quality Best Management Practices - Indoor Air Quality Management for Facility Alterations and Additions	Under the fourth bullet, add four bullets, indented:	7/6/2012
383*	Requirements	IEQc1.5	Indoor Air Quality Best Management Practices - Indoor Air Quality Management for Facility Alterations and Additions	The first new bullet should read: "Filtration media has a minimum efficiency reporting value (MERV) of 8, as determined by ASHRAE Standard 52.2-1999 (with errata but without addenda)."	7/6/2012

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383*	Requirements	IEQc1.5	Indoor Air Quality Best Management Practices - Indoor Air Quality Management for Facility Alterations and Additions	The second new bullet should read: "Equivalent filtration media Class F5 or higher, as defined by CEN Standard EN 779–2002, Particulate air filters for general ventilation, Determination of the filtration performance."	7/6/2012
383*	Requirements	IEQc1.5	Indoor Air Quality Best Management Practices - Indoor Air Quality Management for Facility Alterations and Additions	The third new bullet should read: "Equivalent filtration media with a minimum dust spot efficiency of 30% and greater than 90% arrestance on a particle size of 3–10 µg."	7/6/2012
383*	Requirements	IEQc1.5	Indoor Air Quality Best Management Practices - Indoor Air Quality Management for Facility Alterations and Additions	The fourth new bullet should read: "Replace all filtration media immediately prior to occupancy."	7/6/2012
402	Definitions	IEQc2.2	Controllability of Systems: Lighting	Revise the definition for individual occupant spaces to be, "In individual occupant spaces, occupants perform distinct tasks from one another. Such spaces may be contained within multi-occupant spaces and should be treated separately where possible. Individual occupant spaces may be regularly or non-regularly occupied spaces."	11/1/2011
402	Definitions	IEQc2.2	Controllability of Systems: Lighting	In alphabetical order, add the following definition for multi-occupant spaces , "Multi-Occupant Spaces are places of egress, congregation, or where occupants pursue overlapping or collaborative tasks. Multi occupant spaces may be regularly or non-regularly occupied spaces."	11/1/2011
403*	Requirements	IEQc2.3	Occupant Comfort - Thermal Comfort Monitoring	The second sentence should read: "Have a permanent monitoring system to ensure ongoing building performance to the desired comfort criteria as determined by either of the following standards:"	7/6/2012
403*	Requirements	IEQc2.3	Occupant Comfort - Thermal Comfort Monitoring	Add option title that reads: "OPTION 1. ASHRAE Standard 55-2004 or Non-U.S. Equivalent" after the first paragraph.	7/6/2012
403*	Option 1	IEQc2.3	Occupant Comfort - Thermal Comfort Monitoring	Option 1 should read: "ASHRAE Standard 55-2004, Thermal Comfort Conditions for Human Occupancy (with errata but without addenda). Projects outside the U.S. may use a local equivalent to ASHRAE Standard 55-2004 Thermal Comfort Conditions for Human Occupancy."	7/6/2012

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403*	Requirements	IEQc2.3	Occupant Comfort - Thermal Comfort Monitoring	Add option title that reads: "OPTION 2. ISO 7730: 2005 & CEN Standard EN 15251: 2007"	7/6/2012
403*	Option 2	IEQc2.3	Occupant Comfort - Thermal Comfort Monitoring	Add the following paragraph: "Projects outside the U.S. may earn this credit by meeting the requirements of International Organization for Standardization (ISO) 7730, Ergonomics of the thermal environment, Analytical determination and interpretation of thermal comfort using calculation of the PMV and PPD indices and local thermal comfort criteria; and CEN Standard EN 15251: 2007, Indoor environmental input parameters for design and assessment of energy performance of buildings addressing indoor air quality, thermal environment, lighting and acoustics."	7/6/2012
408	Definitions	IEQc2.3	Occupant Comfort – Thermal Monitoring	In alphabetical order, add the following definition for nonoccupied spaces , "Nonoccupied spaces are defined as spaces designed for equipment and machinery or storage with no human occupancy except for maintenance, repairs, and equipment retrieval."	11/1/2011
408	Definitions	IEQc2.3	Occupant Comfort – Thermal Monitoring	In alphabetical order, add the following definition for occupied spaces , "Occupied Spaces are defined as enclosed spaces that can accommodate human activities. Occupied spaces are further classified as regularly occupied or non-regularly occupied spaces based on the duration of the occupancy, individual or multi-occupant based on the quantity of occupants, and densely or non-densely occupied spaces based upon the concentration of occupants in the space."	11/1/2011
Entire section*	All	IEQc2.4	Daylight and Views	Replace section with that of the supplementary document: https://www.usgbc.org/ShowFile.aspx?DocumentID=9378	5/9/2011
412	2. Related Credits	IEQc2.4	Daylight and Views	In the first bulleted item, replace the text "MR Credit 2: Sustainable Purchasing – Durable Goods" with "MR Credit 2.1: Sustainable Purchasing – Electric Powered Equipment" and, below as a new bulleted item, "MR Credit 2.2: Sustainable Purchasing – Furniture"	4/14/2010
424	12. Definitions	IEQc2.4	Daylight and Views	Insert the term "Bay" in alphabetical order with the accompanying text "A bay is a component of a standard, rectilinear building design. It is the open area defined by a building element such as columns or a window. Typically, there are multiple identical bays in succession."	12/2/2009
424	Definitions	IEQc2.4	Daylight and Views	In alphabetical order, add the following definition for non-regularly occupied space , "Non-regularly occupied spaces are spaces that occupants pass through, or spaces used in pursuit of focused activities for less than one hour per person per day (on average)."	11/1/2011

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424	Definitions	IEQc2.4	Daylight and Views	In alphabetical order, add the following definition for nonoccupied spaces , "Nonoccupied spaces are defined as spaces designed for equipment and machinery or storage with no human occupancy except for maintenance, repairs, and equipment retrieval."	11/1/2011
424	Definitions	IEQc2.4	Daylight and Views	In alphabetical order, add the following definition for occupied spaces , "Occupied Spaces are defined as enclosed spaces that can accommodate human activities. Occupied spaces are further classified as regularly occupied or non-regularly occupied spaces based on the duration of the occupancy, individual or multi-occupant based on the quantity of occupants, and densely or non-densely occupied spaces based upon the concentration of occupants in the space."	11/1/2011
424	Definitions	IEQc2.4	Daylight and Views	Revise the definition for regularly occupied spaces to be, "Regularly occupied spaces are areas where one or more individuals normally spend time (more than one hour per person per day on average) seated or standing as they work, study, or perform other focused activities inside a building."	11/1/2011
431	12. Definitions, Green cleaning	IEQc3.1	Green Cleaning - High-Performance Cleaning Program	Replace the term description with the text " Green cleaning is the use of cleaning products and practices that have lower environmental impacts and more positive indoor air quality impacts than conventional products and practices."	11/2/2009
435	STEP 2	IEQc3.2	Green Cleaning - Custodial Effectiveness Assessment	In third line of the paragraph, replace entire last sentence "For any space types where..." with "For any space types with fewer than 5 rooms, include all 5 rooms in the audit."	12/2/2009
436	STEP 6	IEQc3.2	Green Cleaning - Custodial Effectiveness Assessment	In the fourth line of the paragraph, remove the text "or utilize tools provided in LEED Online"	12/2/2009
438	12. Definitions, Green cleaning	IEQc3.2	Green Cleaning - Custodial Effectiveness Assessment	Replace the term description with the text " Green cleaning is the use of cleaning products and practices that have lower environmental impacts and more positive indoor air quality impacts than conventional products and practices."	11/2/2009
439*	Requirements	IEQc3.3	Green Cleaning – Purchase of Sustainable Cleaning Products and Materials	Add the following sentence after the final bullet point and before the final paragraph: "For projects outside the U.S., any Type 1 eco-labeling program as defined by ISO 14024: 1999 developed by a member of the Global Ecolabelling Network may be used in lieu of Green Seal or Environmental Choice standards."	7/6/2012
439*	Requirements	IEQc3.3	Green Cleaning— Purchase of Sustainable Cleaning Products and Materials	Environmental Protection Agency (EPA) Comprehensive Procurement Guidelines (or local equivalent for projects outside of the U.S.) for Janitorial Paper and Plastic Trash Can Liners.	7/1/2013

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446	12. Definitions, Green cleaning	IEQc3.3	Green Cleaning - Purchase of Sustainable Cleaning Products and Materials	Replace the term description with the text “ Green cleaning is the use of cleaning products and practices that have lower environmental impacts and more positive indoor air quality impacts than conventional products and practices.”	11/2/2009
451	12. Definitions, Green cleaning	IEQc3.4	Green Cleaning - Sustainable Cleaning Equipment	Replace the term description with the text “ Green cleaning is the use of cleaning products and practices that have lower environmental impacts and more positive indoor air quality impacts than conventional products and practices.”	11/2/2009
453*	Requirements	IEQc3.5	Green Cleaning – Indoor Chemical and Pollutant Source Control	Remove the second paragraph: Provide containment drains plumbed for appropriate disposal of hazardous liquid wastes in places where water and chemical concentrate mixing occurs for laboratory purposes.	7/19/2010
455	Maintenance	IEQc3.5	Green Cleaning – Indoor Chemical and Pollutant Source Control	Remove the second paragraph: Give special consideration to the location of containment drains to ensure that hazardous waste is disposed of properly and prevent environmental damage or contamination of water systems.	7/19/2010
459	4. Implementation	IEQc3.6	Green Cleaning – Indoor Chemical and Pollutant Source Control	In fourth paragraph, replace the “ http://www.sfgov.org ” link with “ http://www.sfenvironment.org/ipmchecklist ”	11/2/2009
461	11. Resources	IEQc3.6	Green Cleaning – Indoor Chemical and Pollutant Source Control	Revise the entry for Integrated Pest Management Institute of North America, Inc to read: IPM Institute of North America Inc. The IPM Institute is an independent non-profit organization formed in 1998 to foster recognition and rewards in the marketplace for goods and service providers who practice Integrated Pest Management.	11/1/2011
461	11. Resources	IEQc3.6	Green Cleaning – Indoor Chemical and Pollutant Source Control	Under San Francisco Pest Management Program: -Replace the first hyperlink with “ http://www.sfenvironment.org/ipmchecklist ” -Remove the last sentence “The 2007 list of reduced-risk pesticides is online at http://www.up3project.org/documents/2007rpplbyaicomplete.pdf .”	11/2/2009
462	12. Definitions, Green cleaning	IEQc3.6	Green Cleaning – Indoor Chemical and Pollutant Source Control	Replace the term description with the text “ Green cleaning is the use of cleaning products and practices that have lower environmental impacts and more positive indoor air quality impacts than conventional products and practices.”	11/2/2009

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463	n/a	IEQp2	Environmental Tobacco Smoke (ETS) Control	At the end of the list of footnotes, insert the following text: 34 Americans for Non-Smokers' Rights. "Americans for Non-Smokers' Rights: Smokefree Lists, Maps and Data." http://www.no-smoke.org/goingsmokefree.php?id=519 (accessed September 2008). This information is subject to change based on the ongoing indoor smoking legislation of each state.	11/2/2009
467*	PATH 1	IOc1	Innovation in Operations	In the first line of the second paragraph, replace "IDc1" with "IOc1"	12/2/2009
467*	PATH 2	IOc1	Innovation in Operations	In the second line of the second paragraph, replace "IDc1" with "IOc1"	12/2/2009
467*	Requirements	IOc1	Innovation in Operations	Below the text of the "PATH 2" section text, insert the following section: Path 3. Pilot Credit (1 point) Attempt a pilot credit available in the Pilot Credit Library at www.usgbc.org/pilotcreditlibrary . Register as a pilot credit participant and complete the required documentation. Projects may pursue more than 1 pilot credit; however, a maximum of 1 point will be awarded.	4/14/2010 (updated 2/2/2011)
467*	Requirements	IOc1	Innovation in Operations	In the header, change "(1 point)" to "(1 – 4 Points)"	2/2/2011
467*	Requirements	IOc1	Innovation in Operations	Replace the last sentence of the paragraph with "Projects may pursue up to 4 Pilot Credits total."	2/2/2011
487*	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
489	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
490	Glossary	n/a	n/a	Insert the term "Bay" in alphabetical order with the accompanying text "A bay is a component of a standard, rectilinear building design. It is the open area defined by a building element such as columns or a window. Typically, there are multiple identical bays in succession."	12/2/2009

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490	Glossary, baseline building performance	n/a	n/a	Replace the definition of "baseline building performance" with " Baseline building performance is the annual energy cost for a building design, used as a baseline for comparison with above-standard design."	10/1/2012
490	Glossary, blackwater	n/a	n/a	Replace the first sentence with, " Blackwater is wastewater containing urine or fecal matter that should be discharged to the sanitary drainage system of the building or premises in accordance with the International Plumbing Code."	10/1/2012
490	Glossary, Breathing zone	n/a	n/a	Replace the text with " Breathing zone is the region within an occupied space between 3 and 6 feet above the floor. Note that this definition varies from that of ASHRAE 62.1-2007, which states that the breathing zone is between 3 inches and 6 feet from the floor, and 2 feet from the walls as well as fixed air conditioning equipment."	4/14/2010
491	Glossary, brownfield	n/a	n/a	Replace "whose use" with "or the expansion, redevelopment, or reuse of which"	10/1/2012
491	Glossary, Building footprint	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
491	Glossary, chain of custody	n/a	n/a	Replace the definition of " chain-of-custody (COC) " with "the path taken by raw materials, processed materials, and products from the forest to the consumer, including all successive stages of processing, transformation, manufacturing and distribution. A chain-of-custody certificate number on invoices for nonlabeled products indicates that the certifier's guidelines for product accounting have been followed. A chain-of-custody certification is not required by distributors of a product that is individually labeled with the Forest Stewardship Council logo and manufacturer's chain-of-custody number. Chain of Custody (CoC) certification requirements are determined by Forest Stewardship Council Chain of Custody Standard 40-004 v2-1."	10/1/2012
491	Glossary, chlorofluorocarbons (CFCs)	n/a	n/a	Replace the definition of " chlorofluorocarbons (CFCs) " with "a compound of carbon, hydrogen, chlorine and fluorine, once commonly used in refrigeration, that depletes the stratospheric ozone layer."	10/1/2012

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491	Glossary	n/a	n/a	Replace the definition of "chain-of-custody (COC)" with "the path taken by raw materials, processed materials, and products from the forest to the consumer, including all successive stages of processing, transformation, manufacturing and distribution. A chain-of-custody certificate number on invoices for nonlabeled products indicates that the certifier's guidelines for product accounting have been followed. A chain-of-custody certification is not required by distributors of a product that is individually labeled with the Forest Stewardship Council logo and manufacturer's chain-of-custody number. Chain of Custody (CoC) certification requirements are determined by Forest Stewardship Council Chain of Custody Standard 40-004 v2-1."	4/1/2013
493	Glossary	n/a	n/a	Revise the definition for densely occupied spaces to be, "Densely occupied spaces are areas with a design occupant density of 25 people or more per 1,000 square feet (40 square feet or less per person)."	11/1/2011
494	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
496	Glossary, graywater	n/a	n/a	Replace the definition of "graywater" with " Graywater is untreated household waste water which has not come into contact with toilet waste. Graywater typically includes used water from bathtubs, showers, bathroom wash basins, and water from clothes-washer and laundry tubs, though definitions may vary. Some states and local authorities also allow kitchen sink wastewater to be included in graywater. Project teams should comply with the graywater definition established by the authority having jurisdiction in the project area."	10/1/2012
497	Glossary, Green cleaning	n/a	n/a	Replace the term description with the text " Green cleaning is the use of cleaning products and practices that have lower environmental impacts and more positive indoor air quality impacts than conventional products and practices."	11/2/2009

Page	Location	Credit	Credit Title	Issue	Post Date
497	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 basement s, mezzanine and intermediate□ floored tiers, and penthouses with headroom height of 7.5 ft (2.2 meters) or greater. Measurements must be taken from the exterior 39 faces of exterior walls OR from the centerline of walls separating buildings, OR (for LEED CI certifying spaces) from the centerline of walls separating spaces. Excludes non□enclosed (or non□enclosable) roofed□ over areas such as exterior covered walkways, porches, terraces or steps, r oof overhangs, and similar features. Excludes air shafts, pipe trenches, and chimneys. Excludes floor area dedicated to the parking and circulation of m otor 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
497	Glossary, heat island effect	n/a	n/a	In the second sentence, delete "Particularly in urban areas"; revise the last clause so that it reads, "Other sources may include vehicle exhaust, air-conditioners, and street equipment. Reduced airflow because of tall buildings and narrow streets exacerbate the effect."	10/1/2012
497	Glossary	n/a	n/a	Insert the term "Hospitality industry" in alphabetical order with the accompanying text "The hospitality industry consists of companies within the food services, accommodations, recreation, and entertainment sectors."	12/2/2009
498	Glossary	n/a	n/a	Revise the definition for individual occupant spaces to be, "In individual occupant spaces, occupants perform distinct tasks from one another. Such spaces may be contained within multi-occupant spaces and should be treated separately where possible. Individual occupant spaces may be regularly or non-regularly occupied spaces."	11/1/2011
500	Glossary	n/a	n/a	Insert the term "Lodging" in alphabetical order with the accompanying text " Lodging are facilities that provide overnight accommodations to customers or guests, including hotels, motels, inns and resorts."	12/2/2009
501	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."	5/9/2011
501	Glossary	n/a	n/a	Replace the definition for group multioccupant spaces with the following definition for multi-occupant space , "Multi occupant spaces are places of egress, congregation, or where occupants pursue overlapping or collaborative tasks. Multi occupant spaces may be regularly or non-regularly occupied spaces."	11/1/2011

Page	Location	Credit	Credit Title	Issue	Post Date
501	Glossary	n/a	n/a	In alphabetical order, add the following definition for non-densely occupied space, "Non-densely occupied spaces are areas with a design occupant density of less than 25 people per 1,000 square feet (40 square feet or more per person)."	11/1/2011
501	Glossary	n/a	n/a	Revise the definition for nonoccupied spaces to be, "Nonoccupied spaces are defined as spaces designed for equipment and machinery or storage with no human occupancy except for maintenance, repairs, and equipment retrieval."	11/1/2011
501	Glossary	n/a	n/a	In alphabetical order, add the following definition for non-regularly occupied space , "Non-regularly occupied spaces are spaces that occupants pass through, or spaces used in pursuit of focused activities for less than one hour per person per day (on average)."	11/1/2011
501	Glossary	n/a	n/a	In alphabetical order, add the following definition for occupied spaces , "Occupied spaces are defined as enclosed spaces that can accommodate human activities. Occupied spaces are further classified as regularly occupied or non-regularly occupied spaces based on the duration of the occupancy, individual or multi-occupant based on the quantity of occupants, and densely or non-densely occupied spaces based upon the concentration of occupants in the space."	11/1/2011
503	Glossary	n/a	n/a	Replace the definition of " postconsumer material " with "waste generated by end users (households or commercial, industrial and institutional facilities) of a product no longer able to be used for its intended purpose that is recycled into raw material for a new product."	4/1/2013
503-504	Glossary	n/a	n/a	In alphabetical order, insert the terms: 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. Public or public use applies to all buildings, structures, or uses that are not defined as private or private use.	12/2/2009
505	Glossary	n/a	n/a	Revise the definition for regularly occupied spaces to be, "Regularly occupied spaces are areas where one or more individuals normally spend time (more than one hour per person per day on average) seated or standing as they work, study, or perform other focused activities inside a building."	11/1/2011

Page	Location	Credit	Credit Title	Issue	Post Date
506	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
506	Glossary, sealant	n/a	n/a	Add the following sentence to the end of " sealant " definition, "Sealants are used on wood, fabric, paper, corrugated paperboard, plastic foam and other materials with tiny openings, often microscopic, that may absorb or discharge gas or fluid."	10/1/2012
507	Glossary, solar reflectance (albedo)	n/a	n/a	Replace the definition of " solar reflectance, albedo " with "the fraction of solar energy that is reflected by a surface on a scale of 0 to 1. Black paint has a solar reflectance of 0; white paint (titanium dioxide) has a solar reflectance of 1. The standard technique for its determination uses spectrophotometric measurements, with an integrating sphere to determine the reflectance at each wavelength. The average reflectance is then determined by an averaging process, using a standard solar spectrum, as documented by ASTM Standards E903 and E892."	10/1/2012
509	Glossary, urea formaldehyde	n/a	n/a	Replace the definition of " urea-formaldehyde " with "a combination of urea and formaldehyde used in some glues and adhesives, particularly in composite wood products. At room temperature, urea formaldehyde emits formaldehyde, a toxic and possibly carcinogenic gas."	10/1/2012
509	Glossary, volatile organic compounds (VOCs)	n/a	n/a	Replace the definition of " volatile organic compounds (VOC's) " with "a carbon compound that vaporizes (becomes a gas) at normal room temperatures. VOCs contribute to air pollution directly and through atmospheric photochemical reactions (excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides and carbonates, and ammonium carbonate) to produce secondary air pollutants, principally ozone and peroxyacetyl nitrate."	10/1/2012
510	Glossary, Waste disposal	n/a	n/a	In the term description, remove the phrase "dumping at sea"	11/2/2009

*Shaded rows denote rating system changes. The purpose of these rating system changes within the rating system portions of the *LEED Reference Guide for Green Building Operations and Maintenance* is to align with the LEED Rating System that comprises the guide.

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.