DOCUMENT ADDENDA

For the documents titled: **LEED Reference Guide for Green Building Design and Construction**, **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/addenda.

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 “20036” with “20037” so it becomes “Washington, DC 20037”	4/14/2010
ii	DISCLAIMER	n/a	n/a	In the fourth line of the third paragraph, replace the text “20036” with “20037” so it becomes “Washington, DC 20037”	11/2/2009
xiv*	Minimum Program Requirements	n/a	n/a	Replace the last sentence of the first paragraph with “To view the MPRs and the MPR Supplemental Guidance, visit the LEED Resources and Tools section of www.usgbc.org/projecttools.”	11/3/2010
xiv	When to Use LEED for New Construction	n/a	n/a	Replace the second and third paragraphs with the following text: LEED for New Construction addresses design and construction activities for both new buildings and major renovations of existing buildings. If the project scope does not involve significant design and construction activities and focuses more on operations and maintenance activities, LEED for Existing Buildings: Operations & Maintenance is more appropriate because it addresses operational and maintenance issues of working buildings. Please see the Rating System Selection Policy, located in the LEED resources section of www.usgbc.org, for more information about choosing a rating system.	4/14/2010

Page	Location	Credit	Credit Title	Issue	Post Date
xv	When to Use LEED for Core & Shell	n/a	n/a	Replace the fourth paragraph with the following text: If a project is designed and constructed to be partially occupied by the owner or developer, then the owner or developer has direct influence over that portion of the interior build-out work. For these projects, LEED for New Construction may be more appropriate. Please see the Rating System Selection Policy, located in the LEED resources section of www.usgbc.org, for more information about choosing a rating system.	4/14/2010
xvi	First paragraph (that begins with "LEED for Schools")	n/a	n/a	Replace the first, second and third paragraphs with the following text: LEED for Schools must be used for the new construction or major renovation of an academic building. While LEED for Schools was designed for K-12 facilities, it may also be used for postsecondary academic buildings or prekindergarten buildings. Please see the Rating System Selection Policy, located in the LEED Resources and Tools section of www.usgbc.org/projecttools, for more information about choosing a rating system.	4/14/2010
xvi	Above Registration section	n/a	n/a	Following the Minimum Program Requirements section, insert the following section: **Multiple Buildings and On-Campus Projects** The 2010 LEED Application Guide for Multiple Buildings and On-Campus Building Projects (available at www.usgbc.org/campusguidance) provides guidance on applying the LEED rating systems to multiple-building and on-campus projects that are on a shared site under the control of a single entity; for example, a corporate or educational campus or government installation. The 2010 LEED Application Guide for Multiple Buildings and On-Campus Building Projects provides guidance for the certification of projects under the Design and Construction and Interior Design and Construction rating systems as well as the LEED for Existing Buildings: Operations & Maintenance rating system. The guidance does not create a new rating system. Users may follow this guidance and apply it to existing rating system requirements for projects on a campus.	11/3/2010
xvi	Registration	n/a	n/a	In the fifth line of the paragraph, replace "errata" with "addenda"	11/3/2010

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

Page	Location	Credit	Credit Title	Issue	Post Date
xix	Construction Phase Review	n/a	n/a	Following this section, create a new section with the header "Design or Construction Phase Submittal" and insert the supplemental document: https://www.usgbc.org/ShowFile.aspx?DocumentID=8598	12/2/2009 *(updated 8/1/2011)*
xxi	Sustainable Sites	n/a	n/a	Below SS Credit 7, add the following line: SS Credit 8 Light Pollution Reduction (Core & Shell only)	2/2/2011
xxi	Energy and Atmosphere	n/a	n/a	Below EA Credit 3, add the following line: EA Credit 5 Measurement and Verification	2/2/2011
xxi	Indoor Environmental Quality	n/a	n/a	Below IEQ Credit 3, add the following line: IEQ Credit 4 Low Emitting Materials (Core & Shell only)	2/2/2011
xxii	X. TOOLS FOR REGISTERED PROJECTS	n/a	n/a	In the second line of the paragraph, replace "errata" with "addenda"	11/3/2010
xxii	X. TOOLS FOR REGISTERED PROJECTS	n/a	n/a	Make the first sentence of the second paragraph bold so it becomes "**Declarant Definitions and Other Definitions.**"	11/3/2010
xxiii	First paragraph on page (Licensed Professional Exemption Form)	n/a	n/a	In the first paragraph on the top of 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
xxiii	XI. HOW TO USE THIS REFERENCE GUIDE	n/a	n/a	In the fifth line of the paragraph, remove the text "case studies of buildings that have implemented these strategies successfully,"	1/8/2010
7	4. Implementation	SSp1	Construction Activity Pollution Prevention	At the end of the 3rd paragraph, add the following text: For major renovation projects whose scope of work includes only interior renovation, identify areas of potential pollution from construction activities including construction staging and access, and develop a plan that addresses these areas. Potential pollution could include pollution of the site or air with dust and particulate matter.	11/3/2010

Page	Location	Credit	Credit Title	Issue	Post Date
21	13. Definitions	SSc1	Site Selection	Replace the definition of "**Previously developed sites**" with "Previously developed sites are those altered by paving, construction, and/or land use that would typically have required regulatory permitting to have been initiated (alterations may exist now or in the past). Previously developed land includes a platted lot on which a building was constructed if the lot is no more than 1 acre; previous development on lots larger than 1 acre is defined as the development footprint and land alterations associated with the footprint. Land that is not previously developed and altered landscapes resulting from current or historical clearing or filling, agricultural or forestry use, or preserved natural area use are considered undeveloped land. The date of previous development permit issuance constitutes the date of previous development, but permit issuance in itself does not constitute previous development."	11/1/2011
31	Table 3	SSc2	Development Density and Community Connectivity	In the fifteenth line of Table 3 with the text “Total Building Space,” add a “5” to the end of the number “1,018,36” so it becomes “1,018,365”	11/2/2009
33	13. Definitions	SSc2	Development Density and Community Connectivity	Replace the definition of "**Previously developed sites**" with "Previously developed sites are those altered by paving, construction, and/or land use that would typically have required regulatory permitting to have been initiated (alterations may exist now or in the past). Previously developed land includes a platted lot on which a building was constructed if the lot is no more than 1 acre; previous development on lots larger than 1 acre is defined as the development footprint and land alterations associated with the footprint. Land that is not previously developed and altered landscapes resulting from current or historical clearing or filling, agricultural or forestry use, or preserved natural area use are considered undeveloped land. The date of previous development permit issuance constitutes the date of previous development, but permit issuance in itself does not constitute previous development."	11/1/2011
35*	Requirements	SSc3	Brownfield Redevelopment	Below this section, add the following text as a new section: Projects where asbestos is found and remediated may also earn this credit. Testing should be done in accordance with EPA Reg 40CFR part 763, when applicable.	11/3/2010
38	7. Documentation Guidance	SSc3	Brownfield Redevelopment	Below the second bullet, add a third bullet with the following text: For projects where asbestos is found, prepare executive summary-level content from the investigation’s report explaining the extent of the contamination and required action as well as documentation indicating an acceptable level of remediation was achieved based on an acceptable standard, such as RCRA or NESHAPs.	11/3/2010

Page	Location	Credit	Credit Title	Issue	Post Date
39	Below “Preliminary Remediation…” resource	SSc3	Brownfield Redevelopment	Add the following resource: **U.S. EPA, Asbestos** http://www.epa.gov/asbestos/index.html This website provides information on the health effects of asbestos, where it is commonly found, and the laws and regulations governing testing of sites containing asbestos.	11/3/2010
43	Second paragraph	SSc4.1	Alternative Transportation – Public Transportation	Add the following sentence to the end of the second paragraph, "Shuttle buses should provide direct access to transit facilities within 2 miles of the project site, approximately a 5-10 minute drive, and must be available to all project occupants."	4/1/2012
45	Figure 2	SSc4.1	Alternative Transportation – Public Transportation	In Figure 2, remove the 1/4 mile circle from the figure and add a scale at the bottom so that it is clear that the bus stops are within 1/4 mile walking distance of the project's main entrance	4/14/2010
50*	Schools box	SSc4.2	Alternative Transportation – Bicycle Storage and Changing Rooms	In last line of the third paragraph, replace “without any no barriers” sentence with “with no barriers” so it becomes “…more directions with no barriers (e.g…”	11/2/2009
55-56	Schools box	SSc4.2	Alternative Transportation – Bicycle Storage and Changing Rooms	(1) In the "STEP 1" section of the SCHOOLS box within section 6. Calculations, add "e. Part-time students" to the list of occupants. (2) At the end of the paragraph immediately below that ("STEP 2") add, "Part-time students are calculated in the same manner as part-time staff."	4/1/2012
61*	OPTION 1	SSc4.3	Alternative Transportation – Low-Emitting and Fuel-Efficient Vehicles	Delete the following text, "Providing a discounted parking rate is an acceptable substitute for preferred parking for carpool or vanpool vehicles. To establish a meaningful incentive in all potential markets, the parking rate must be discounted at least 20%. The discounted rate must be available to all customers (i.e., not limited to the number of customers equal to 5% of the vehicle parking capacity), publicly posted at the entrance of the parking area, and available for a minimum of 2 years."	11/1/2011
61*	Footnote 1	SSc4.3	Alternative Transportation – Low-Emitting and Fuel-Efficient Vehicles	Add a superscript for footnote 1 to each occurrence of the term "preferred parking".	11/1/2011
61*	Footnote 1	SSc4.3	Alternative Transportation – Low-Emitting and Fuel-Efficient Vehicles	Change footnote text to, "To establish a meaningful incentive in all potential markets, the parking rate must be discounted at least 20%. The discounted rate must be available to all eligible customers (i.e. not limited to the number of customers equal to 5% of the vehicle parking capacity), publicly posted at the entrance of the parking area, and available for a minimum of 2 years."	11/1/2011

Page	Location	Credit	Credit Title	Issue	Post Date
61*	Footnote 2	SSc4.3	Alternative Transportation – Low-Emitting and Fuel-Efficient Vehicles	Change footnote text to, "For the purposes of this credit, low-emitting vehicles are defined as vehicles that are classified as Zero Emission Vehicles (ZEV) by the California Air Resources Board. Fuel-efficient vehicles are defined as vehicles that have achieved a minimum green score of 40 on the American Council for an Energy Efficient Economy (ACEEE) annual vehicle rating guide."	11/1/2011
62*	OPTION 3	SSc4.3	Alternative Transportation – Low-Emitting and Fuel-Efficient Vehicles	Switch the footnote numbers so the text becomes Provide low-emitting and fuel-efficient vehicles [2] for 3% of full-time equivalent (FTE) occupants. Provide preferred parking[1] for these vehicles	7/19/2010
64	Schools box	SSc4.3	Alternative Transportation - Low-Emitting and Fuel-Efficient Vehicles	In the first line of the first paragraph, replace "5" with "2" so the text becomes "This credit can be achieved under Option 2 by specifying…"	2/1/2010
66	Schools box	SSc4.3	Alternative Transportation - Low-Emitting and Fuel-Efficient Vehicles	In the box header, replace "Option 5" with "Option 2"	2/1/2010
68	12. Resources	SSc4.3	Alternative Transportation - Low-Emitting and Fuel-Efficient Vehicles	Change the California Air Resources Board, Certified Vehicles List website from "http://www.arb.ca.gov/msprog/ccvl/ccvl.htm" to "http://www.arb.ca.gov/".	8/1/2011
68	12. Resources	SSc4.3	Alternative Transportation - Low-Emitting and Fuel-Efficient Vehicles	Change the California Air Resources Board (CARB), Cleaner Car Guide website to "http://www.driveclean.ca.gov/"	11/1/2011
71*	Requirements	SSc4.4	Alternative Transportation – Parking Capacity	Add a superscript for footnote 1 to each occurrence of the term "preferred parking".	11/1/2011
71*	Requirements	SSc4.4	Alternative Transportation – Parking Capacity	Add a superscript for footnote 2 to each occurrence of the term "preferred parking". Add a second footnote at the bottom of the Requirements: 2 "To establish a meaningful incentive in all potential markets, the parking rate must be discounted at least 20%. The discounted rate must be available to all eligible customers (i.e. not limited to the number of customers equal to 5% of the vehicle parking capacity), publicly posted at the entrance of the parking area, and available for a minimum of 2 years."	11/1/2011
71*	OPTION 2	SSc4.4	Alternative Transportation – Parking Capacity	Delete the following text in the subparagraph, "Providing a discounted parking rate is an acceptable substitute for preferred parking for carpool or vanpool vehicles. To establish a meaningful incentive in all potential markets, the parking rate must be discounted at least 20%.	11/1/2011

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				The discounted rate must be available to all customers (i.e., not limited to the number of customers equal to 5% of the vehicle parking capacity), publicly posted at the entrance of the parking area, and available for a minimum of 2 years."	
71*	CASE 1	SSc4.4	Alternative Transportation – Parking Capacity	Following the text of "Option 3," insert the following text: OR OPTION 4 For projects that have no minimum local zoning requirements, provide 25% fewer parking spaces than the applicable standard listed in the 2003 Institute of Transportation Engineers (ITE) "Parking Generation" study at http://www.ite.org.	4/14/2010
77*	CASE 1	SSc5.1	Site Development – Protect or Restore Habitat	Revise the first bulleted item to say "40 feet beyond the building perimeter and parking garages"	8/1/2011
77*	Requirements	SSc5.1	Site Development – Protect or Restore Habitat	Below this section, insert the following text: Projects with limited landscape opportunities may also donate offsite land in perpetuity, equal to 60% of the previously developed area (including the building footprint), to a land trust within the same EPA Level III Ecoregion identified for the project site. The land trust must adhere to the Land Trust Alliance 'Land Trust Standards and Practices' 2004 Revision.	11/3/2010
80	6. Calculations	SSc5.1	Site Development – Protect or Restore Habitat	Replace the text under "CASE 1" with the following: There are no calculations required for this credit, unless a project cannot limit site disturbance for every parameter. In such a case, an average is acceptable, as long as 3 of the 4 disturbance limits are met. Project teams should calculate the amount of site disturbance allowed under the requirements for greenfield sites and then the amount of actual site disturbance. The actual should be less than the allowable.	11/3/2010
81	Figure 2	SSc5.1	Site Development – Protect or Restore Habitat	Replace the text to the right of the white square with, "Non-vegetated, pedestrian oriented hardscape & non-native vegetation areas, to be excluded from restored area"	5/9/2011
84	13. Definitions	SSc5.1	Site Development – Protect or Restore Habitat	Revise the text for "Building footprint" to be "**Building footprint** is the area on a project site used by the building structure, defined by the perimeter of the building plan. Parking lots, parking garages, landscapes, and other nonbuilding facilities are not included in the	8/1/2011

Page	Location	Credit	Credit Title	Issue	Post Date
				building footprint."	
84	13. Definitions	SSc5.1	Site Development – Protect or Restore Habitat	Replace the definition of "**Previously developed sites**" with "Previously developed sites are those altered by paving, construction, and/or land use that would typically have required regulatory permitting to have been initiated (alterations may exist now or in the past). Previously developed land includes a platted lot on which a building was constructed if the lot is no more than 1 acre; previous development on lots larger than 1 acre is defined as the development footprint and land alterations associated with the footprint. Land that is not previously developed and altered landscapes resulting from current or historical clearing or filling, agricultural or forestry use, or preserved natural area use are considered undeveloped land. The date of previous development permit issuance constitutes the date of previous development, but permit issuance in itself does not constitute previous development."	11/1/2011
86	Implementation, second paragraph	SSc5.2	Site Development-Maximize Open Space	Add this clause after "..the life of the building": "and is within the contiguous limits of the campus where the applicable project is located."	4/1/2012
97	8. Examples	SSc6.1	Stormwater Design – Quantity Control	Revise the third equation box to:Qr = (800 cf / 259,200 sec) = (0.003 cfs or 1.35 gpm)	11/1/2011
99	13. Definitions	SSc6.1	Stormwater Design – Quantity Control	Insert the term “Predevelopment” in alphabetical order with the accompanying text “**Predevelopment** refers to before the LEED project was initiated, but not necessarily before any development or disturbance took place. Predevelopment conditions describe conditions on the date the developer acquired rights to a majority of the buildable land on the project site through purchase or option to purchase.”	4/14/2010
102	Economic Issues	SSc6.2	Stormwater Design – Quality Control	In the fourth and fifth lines of the paragraph, remove both instances of “Ð”	12/2/2009
104	Table 2	SSc6.2	Stormwater Design – Quality Control	In the third cell of the table’s title row, replace “Rage” in the column header with “Range” so it becomes “Probable Range of TSS Removal”	11/2/2009
110	3. Summary of Referenced Standards	SSc7.1	Heat Island Effect, Non-Roof	Make the following text bold, "ASTM E408–71(1996)e1, Standard Test Methods for Total Normal Emittance of Surfaces Using Inspection-Meter Techniques".	8/1/2011
112	Table 1	SSc7.1	Heat Island Effect, Non-Roof	Replace SRI for "Typical new gray concrete" with 38	5/9/2011
119*	OPTION 1	SSc7.2	Heat Island Effect-Roof	Below equation, add the text and equation: Alternatively, the following equation may be used to calculate	8/1/2011

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				compliance: (see image: https://www.usgbc.org/ShowFile.aspx?DocumentID=9756)	
119*	OPTION 3	SSc7.2	Heat Island Effect-Roof	Below equation, add the text and equation: Alternatively, a weighted average approach may be used to calculate compliance for multiple materials: (see image: https://www.usgbc.org/ShowFile.aspx?DocumentID=9757)	8/1/2011
120	3. Summary of Referenced Standards	SSc7.2	Heat Island Effect-Roof	Make the following text bold, "ASTM E408–71(1996)e1, Standard Test Methods for Total Normal Emittance of Surfaces Using Inspection-Meter Techniques".	8/1/2011
123	STEP 2	SSc7.2	Heat Island Effect-Roof	Add "skylights" to the list of things deducted from the roof area so that the sentence reads, "Determine the area of the roof covered by mechanical equipment, solar energy panels, skylights, and other appurtenances, and deduct these areas from the total roof surface area."	8/1/2011
124	9. Exemplary Performance	SSc7.2	Heat Island Effect-Roof	Replace the term "photovoltaic panels" with "solar energy panels" and add "other appurtenances" to the list of things deducted from the roof area so that the sentence reads "Projects may earn an Innovation in Design (ID) credit for exemplary performance by demonstrating that 100% of the project's roof area (excluding any mechanical equipment, solar energy panels, skylights, and other appurtenances) consists of a vegetated roof system."	8/1/2011
126	13. Definitions	SSc7.2	Heat Island Effect-Roof	In alphabetical order, add the term "An **appurtenance** is any built-in, nonstructural portion of a roof system, such as skylights, ventilators, mechanical equipment, partitions, and solar energy panels."	8/1/2011
126	13. Definitions	SSc7.2	Heat Island Effect-Roof	In alphabetical order, add the term, "**Roof area** is the area of the uppermost surface of the building which covers enclosed Gross Floor Area, as measured when projected onto a flat, horizontal surface (i.e. as seen in Roof Plan view). 'Roofs', or portions of roofs, covering unenclosed areas (e.g. roofs over porches and open covered parking structures) are not included in the areas used to evaluate compliance with SSc7.2, though they may be applicable to SSc7.1."	8/1/2011
129*	Various	SSc8	Light Pollution Reduction	Replace all instances of "site boundary," "project site boundary," and "project boundary" with "LEED project boundary"	11/1/2011
129*	OPTION 1	SSc8	Light Pollution Reduction	In the first line of the paragraph, the "(" after the text "device of" is moved to follow the word "device" so it becomes "(by automatic device) of…"	11/2/2009

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~~**129***~~	~~For Exterior Lighting~~	~~SSc8~~	~~Light Pollution Reduction~~	~~At the end of the third line in the first paragraph, insert sentence "Meet exterior lighting control requirements from ANSI/ASHRAE/IESNA Standard 90.1-2007 (with errata but without addenda[1]) Exterior Lighting Section, without amendments."~~ **(removed 4/14/2010, see below item)**	~~1/8/2010~~
129*	For Exterior Lighting	SSc8	Light Pollution Reduction	Replace the first paragraph with the following text: Light areas only as required for safety and comfort. Exterior lighting power densities shall not exceed those specified in ANSI/ASHRAE/IESNA Standard 90.1-2007 with Addenda[1] for the documented lighting zone. Justification shall be provided for the selected lighting zone. Lighting controls for all exterior lighting shall comply with section 9.4.1.3 of ANSI/ASHRAE/IESNA Standard 90.1-2007, without amendments[1].	4/14/2010
129*	Footnote	SSc8	Light Pollution Reduction	Replace the entire text with "[1] The requirement to use ASHRAE Addenda I is unique to this credit and does not obligate Project teams to use ASHRAE approved addenda for other credits."	4/14/2010
130*	LZ4	SSc8	Light Pollution Reduction	In the item title, replace "high-activity" with "high-activity" so the text becomes "LZ4: High2 (high-activity commercial districts in major metropolitan areas)"	1/8/2010
131*	Schools Additional Requirement box	SSc8	Light Pollution Reduction	At the end of the paragraph, insert the following text: **(see below text)**	11/2/2009
	(text relating to above issue) **LZ1** = 0.10 fc at the site boundary, dropping to 0.01 fc within 10 feet of the boundary **LZ2** = 0.30 fc at the site boundary, dropping to 0.01 fc within 10 feet of the boundary **LZ3** = 0.80 fc at the site boundary, dropping to 0.01 fc within 15 feet of the boundary **LZ4** = 1.50 fc at the site boundary, dropping to 0.01 fc within 15 feet of the boundary				
133	Above Table 1	SSc8	Light Pollution Reduction	Add the following paragraph before Table 1: "The total exterior lighting power allowance for all exterior building applications is the sum of the base site allowance plus the individual allowances for areas that are designed to be illuminated and are permitted in Table 1 for the applicable lighting zone. Trade-offs are allowed only among exterior lighting applications listed in the "Tradable Surfaces" section of Table 1."	11/1/2011

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133	Second paragraph	SSc8	Light Pollution Reduction	In the second line of the paragraph, replace "3" with "1" so the text becomes "Table 1 lists the ASHRAE…"	12/2/2009
133	Table 3	SSc8	Light Pollution Reduction	In the table title, replace "3" with "1" so it becomes "Table 1. Lighting Power Densities for Building Exteriors"	12/2/2009
133	Table 1	SSc8	Light Pollution Reduction	Replace "Table 1. Lighting Power Densities for Building Exteriors" with new "Table 1. Individual Lighting Power Allowances for Building Exteriors" https://www.usgbc.org/ShowFile.aspx?DocumentID=10508	11/1/2011
134	OPTION 1	SSc8	Light Pollution Reduction	Replace the entire first paragraph with the following, "All nonemergency interior lighting fixtures with a direct line of sight to any openings in the envelope must be automatically controlled and programmed to turn off or have their input power reduced by at least 50% between 11 p.m. and 5 a.m. Controls can be automatic sweep timers, occupancy sensors, or programmed master lighting control panels. The design can also include manual or occupancy based override capabilities that enable lights to be turned on after hours."	8/1/2011
135	First paragraph (begins with “of light pollution.”)	SSc8	Light Pollution Reduction	At the end of the paragraph, add the sentence ““Flag lighting is not exempt from the requirements of this credit.”	11/3/2010
137	8. Examples	SSc8	Light Pollution Reduction	In the second line of the paragraph, replace “15” with “3” so the text becomes “…and Table 3 demonstrates the data…”	2/1/2010
138	Table 2	SSc8	Light Pollution Reduction	In the tenth row of the table’s third column, replace “ASHRAE 90.1 2004” with “ASHRAE 90.1 2007”	2/1/2010
138	Table 2	SSc8	Light Pollution Reduction	In the eleventh row of the table’s third column, replace “0.25” with “0.15”	2/1/2010
141	9. Exemplary Performance	SSc8	Light Pollution Reduction	Replace text with the following: **NC & Schools**: This credit is not eligible for exemplary performance under the Innovation and Design section. **CS**: Projects that require and enforce installing automatic controls within 100% of the tenant space are eligible for exemplary performance under the Innovation in Design section.	2/2/2011

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142	Definitions	SSc8	Light Pollution Reduction	In alphabetical order, insert the term "emergency lighting" with the text "Emergency lighting as defined by the Illuminating Engineering Society of North America is lighting designed to supply illumination essential to the safety of life and property in the event of failure of the normal supply."	5/9/2011
145	Core & Shell Sustainable Design and Construction Features	SSc9	Tenant Design and Construction Guidelines	In the second paragraph titled "Reduced water use," remove "it's" so the text becomes "…the water use fixtures…"	2/1/2010
145	Core & Shell Sustainable Design and Construction Features	SSc9	Tenant Design and Construction Guidelines	From the term "Lighting power" to "Heating, ventilation, and air-conditioning (HVAC)," indent the text to the left	11/3/2010
148	13. Definitions	SSc9	Tenant Design and Construction Guidelines	Remove the text "There are no definitions associated with this credit." and insert the 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
149*	Requirements	SSc9	Site Master Plan	At the end of the last paragraph, add the following sentence:"Projects where no future development is planned are not eligible for this credit."	11/1/2011
153*	Requirements	SSc10	SSc10: Joint Use of Facilities	Revise the text to include "types of" in the following instances: (1) Option 1, first paragraph: "…3 of the following types of spaces included…" (2) Option 2, first paragraph: "…to provide at least 2 types of dedicated-use spaces..." (3) Option 3, first paragraph: "...the following 6 types of spaces that are owned..."	8/1/2011
165*	NC, Schools, & CS box	WEp1	Water Use Reduction	Replace first table of the section: https://www.usgbc.org/ShowFile.aspx?DocumentID=10510	11/1/2011
167	Environmental Issues	WEp1	Water Use Reduction	Remove both instances of "potable" in the section	7/19/2010
168	4. Implementation	WEp1	Water Use Reduction	Replace the first three paragraphs with the following: **(see below text)**	7/19/2010
	(text relating to above issue) Effective ways to reduce water use include installing flow restrictors and/or reduced flow aerators on lavatory, sink, and shower fixtures; installing and maintaining metering faucets; installing high-efficiency flush fixtures, such as high-efficiency water closets and urinals; and collecting rainwater.				

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	In certain cases, faucets with low-flow rates are not appropriate. For example, in kitchen sinks, faucets are used to fill pots and buckets. Using a low-flow rate for tasks where the volume of water is predetermined does not save water and will likely cause user dissatisfaction and inefficiencies. Consider alternative strategies to reduce water use, such as installing special-use pot fillers and faucets or foot pedal–operated faucets. WaterSense, a partnership program sponsored by EPA, helps consumers identify the most water-efficient products and programs. WaterSense-labeled products exceed the requirements of the Uniform Plumbing Code and the International Plumbing Code for some fixtures and fittings. WaterSense products and other high-efficiency plumbing fixtures, fittings, and appliances can be installed in the same way as conventional EPAct plumbing fixtures and fittings, as well as Energy Star appliances.				
168	4. Implementation	WEp1	Water Use Reduction	Remove the paragraph beginning with, "Although water-efficient dishwashers…"	5/9/2011
168	4. Implementation	WEp1	Water Use Reduction	In the first line of the fifth paragraph, replace the word “conservation” with “efficiency” so the text becomes “…analyze the water efficiency options available…”	7/19/2010
169	Table 1	WEp1	Water Use Reduction	In the fourth row of the table in the “EPA WaterSense Standards” column, replace "1.5 - 2.0^b" with “2.0^b”	7/19/2010
169	Table 1	WEp1	Water Use Reduction	In the eighth row of the table in the “Fixture” column, remove the text “and janitor” so it becomes “Kitchen sink faucets”	11/2/2009
169	Table 1	WEp1	Water Use Reduction	In footnote “b,” replace "2.0 gmp" with "2.0 gpm"	7/19/2010
169	6. Calculations	WEp1	Water Use Reduction	After the section's first paragraph, insert the following: For additions to existing buildings, only the fixtures within the project scope must be counted for the prerequisite. To earn points under WE credit 3, all fixtures necessary to meet the needs of the addition occupants must be included, even if they are located within the existing building.	5/9/2011
170	Fixture Usage Groups	WEp1	Water Use Reduction	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

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170	NC & CS box, Calculating Occupancy	WEp1	Water Use Reduction	At the end of the section, insert the following text as a new paragraph:"For hospitality 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 units in the project. Generally, assume 1.5 occupants per guest room and multiply the resulting total by 60% (average hotel occupancy per AH&LA information) to determine the total number of hotel guests. Alternatively, occupants may be derived from actual historical occupancy numbers. 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. Per typical fixture use assumptions, this category of occupants assumes zero shower uses throughout the day. Example: 123-room hotelTotal Hotel Guests = 123*1.5 * 60%Total Hotel Guests = 111"	11/1/2011
171	Table 2	WEp1	Water Use Reduction	Replace the table with two tables in the supplemental document: https://www.usgbc.org/ShowFile.aspx?DocumentID=8602	11/2/2009 *(updated 2/2/2011)*
171	Table 2a (see above)	WEp1	Water Use Reduction	In the sixth row ("Lavatory Faucet") row of the table in the 11/2/2009 addenda, replace the duration (sec) of 15 with 30; replace the related note below table with "Default duration for the metering type / autocontrol faucet is 15 seconds for the baseline and 12 seconds for the design case."	2/2/2011
172	Schools box	WEp1	Water Use Reduction	(1) In the "Calculating Occupancy" section, add "e. Part-time students" (2) In the paragraph immediately below that, before the last sentence, add "Part-time students are calculated in the same manner as part-time staff."	5/9/2011
173	EXAMPLE 1	WEp1	Water Use Reduction	In the fifth line of the paragraph, change the number 193 to 195, and the number 259 to 239, so it becomes "…annual occupancy of 195 females and 239 males…"	11/2/2009
173	Design Case Water Consumption	WEp1	Water Use Reduction	In the second line of the paragraph, remove the text "and subtracting any nonpotable water supply"	7/19/2010
174	Table 4	WEp1	Water Use Reduction	In the fifth row of the table in the column "Flow rate," replace "1.8 gpm" with ""≤ 2.2 gpm"	7/19/2010
174	Table 4	WEp1	Water Use Reduction	In the seventh row of the table in the "Flow Fixture" column, replace "Low-flow shower" with "WaterSense shower"	7/19/2010
174	Table 4	WEp1	Water Use Reduction	In the seventh row of the table in the "Flow Rate" column, replace "1.8 gpm" with "≤ 2.0 gpm"	7/19/2010

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174	Paragraph below Table 4	WEp1	Water Use Reduction	Replace the first sentence with "Private or private use applies to plumbing fixtures in residences, apartments, and dormitories, to private (non-public) bathrooms in transient lodging facilities (hotels and motels), and to private bathrooms in hospitals and nursing facilities."	7/19/2010
174	Eligible Fixtures	WEp1	Water Use Reduction	Replace the section text with the following: This prerequisite is limited to savings generated by the following water using fixtures and fixture fittings as applicable to the project: water closets, urinals, lavatory faucets, showers, kitchen sink faucets and pre-rinse spray valves, as shown in Table 1. The “Kitchen sinks” category encompasses all sinks in public or private buildings that are used with patterns and purposes similar to a sink in a residential kitchen; break room sinks would be included. However professional grade / commercial faucets such as those used in a commercial kitchen would not be included. The “Public lavatory faucets” and “Private lavatory faucets” categories encompass all sinks used primarily for hand-washing regardless of location. Faucets whose usage patterns and flow rates are regulated for medical or industrial purposes (e.g. laboratory sinks) and do not fall under the definition of private or public use are not included. Faucets used exclusively for filling operations (e.g. pot-filler) can be excluded. All other fixtures and fixtures fittings must be included in the calculations unless there are special circumstances that justify excluding them.	2/2/2011
174	Eligible Fixtures	WEp1	Water Use Reduction	Below the first paragraph, enter the following text as a new paragraph:"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
175	Figure 1	WEp1	Water Use Reduction	See revised image: https://www.usgbc.org/ShowFile.aspx?DocumentID=9761	8/1/2011

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176	12. Resources	WEp1	Water Use Reduction	In alphabetical order, insert the following text: **Alliance for Water Efficiency** http://www.allianceforwaterefficiency.org/ The Alliance for Water Efficiency provides information and assistance on water conservation efforts.	7/19/2010
176	12. Resources	WEp1	Water Use Reduction	Remove the following text: **Fine Homebuilding Choosing a Toilet** http://www.taunton.com/finehomebuilding/pages/h00042.asp This article includes several varieties of water-efficient toilets.	7/19/2010
176	12. Resources	WEp1	Water Use Reduction	In the resource "Rocky Mountain Institute, Water," replace the text below the resource header with the following: http://www.rmi.org/rmi/pid172 This portion of RMI's website is devoted to water resource efficiency.	7/19/2010
176	12. Resources	WEp1	Water Use Reduction	Remove the following text: **U.S. EPA, Water Use Efficiency Program** http://www.epa.gov/owm/water-efficiency This website provides an overview of EPA's Water Use Efficiency Program and information about using water more efficiently.	7/19/2010
177	12. Resources	WEp1	Water Use Reduction	Replace the resource "Water Closet Performance Testing," with the following: **Water Studies** http://www.ebmud.com/resource-center/publications/studies The site provides a variety of studies related to water.	7/19/2010
177	Definitions	WEp1	Water Use Reduction	In alphabetical order, add the following definition for autocontrol faucets, "**Autocontrol faucets** have automatic fixture sensors or metering controls."	4/1/2012
179*	PATH 2	WEc1	Water Efficient Landscaping	Replace the second sentence of the paragraph with "Temporary irrigation systems used for plant establishment are allowed only if removed within a period not to exceed 18 months of installation."	7/19/2010
179*	Footnote	WEc1	Water Efficient Landscaping	Replace the footnote text with the following: If the percent reduction of potable water is 100% AND the percent	5/9/2011

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				reduction of total water is equal to or greater than 50%, then Option 2 is earned, for a total of 4 points.	
183	Second paragraph on page (begins with "Hose bibs")	WEc1	Water Efficient Landscaping	In the second line, replace "year" with "18 months" so the text becomes "…during the first 18 months of building…"	7/19/2010
183	Second paragraph on page (begins with "Hose bibs")	WEc1	Water Efficient Landscaping	In the fifth line of the paragraph, replace "1 year" with "18 months" so the text becomes "…a period of 18 months depending on…"	7/19/2010
183	Technologies	WEc1	Water Efficient Landscaping	In the second line of the last paragraph, remove the first instance of "credit" so the text becomes "…an innovative way to achieve this credit."	2/1/2010
183	Technologies	WEc1	Water Efficient Landscaping	In the paragraph beginning with "Using groundwater…", replace the last sentence with the following: Additionally the credit can be met when landscape irrigation is provided by raw water (excluding naturally occurring surface bodies of water, streams, or rivers, and ground water) that would otherwise be treated specifically for nonpotable uses. Only ponds designed solely for the purposes of stormwater retention or detention can be used for this credit.	2/2/2011
184	SCHOOLS box	WEc1	Water Efficient Landscaping	Replace the second sentence with "However, if such areas are included, they must be included in all other applicable Water Efficiency credit calculations (unless otherwise noted)."	7/19/2010
185	STEP 1	WEc1	Water Efficient Landscaping	At the end of the first paragraph, add the text "Any area that is being improved upon (for example site area that is being restored to its natural state) must be included in the landscape area."	7/19/2010
185	STEP 1	WEc1	Water Efficient Landscaping	At the end of the second paragraph, remove the second period	12/2/2009
186	Table 2	WEc1	Water Efficient Landscaping	Below the table, replace the first sentence of the paragraph with the following: Determine, if applicable, the controller efficiency (CE), the percentage reduction in water use from any weather-based controllers or moisture sensor-based systems, not to exceed 30% for the peak month of July.	2/2/2011
186	Equation 3	WEc1	Water Efficient Landscaping	Replace "CE" with "(1 – CE)"	2/2/2011
188	EXAMPLE 1	WEc1	Water Efficient Landscaping	In the first line of the first paragraph, replace the first sentence with "An office building in Austin, Texas, has 6,000 square feet of landscape area."	7/19/2010

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188	EXAMPLE 1	WEc1	Water Efficient Landscaping	In the first line of the second paragraph, replace the first sentence with “The baseline case uses the same reference ETo and total landscape area.”	7/19/2010
191	13. Definitions	WEc1	Water Efficient Landscaping	Insert the term “Landscape area” in alphabetical order with the accompanying text "The **landscape area** of the site is the total site area less the building footprint, paved surfaces, water bodies, areas being left in a natural state, and patios."	7/19/2010
203*	NC, Schools, & CS box	WEc3	Water Use Reduction	Replace first table of the section: https://www.usgbc.org/ShowFile.aspx?DocumentID=10511	11/1/2011
207*	Requirements	WEc4	Process Water Use Reduction	In the first line of the third bullet item, replace “At least 4 process items” with "All appliances within at least 4 equipment types"	7/19/2010
208	4. Implementation	WEc4	Process Water Use Reduction	In the beginning of the first line of the first paragraph, insert the text "With the exception of prerinse spray valves”	7/19/2010
211	13. Definitions	WEc4	Process Water Use Reduction	In alphabetical order, insert the term "once-through (single-pass) cooling a system" with the text "A once-through (single pass) cooling system is one which water from any source is used to transfer heat from equipment or processes and then discharged.	5/9/2011
217*	NC, Schools & CS box	EAp1	Fundamental Commissioning of Building Energy Systems	In the first line of the fourth round bullet item under the first square bullet item, replace “b a” with “be a” so the text becomes “…the CxA may be a qualified…”	2/1/2010
221	Table 2	EAp1	Fundamental Commissioning of Building Energy Systems	In the sixth row of the first column, replace “ofceneral” with “of general” so the text becomes “or subcontractor of general…”	2/1/2010
237*	OPTION 1	EAp2	Minimum Energy Performance	Below the box, insert the following text as a footnote: [1] Project teams wishing to use ASHRAE approved addenda for the purposes of this credit may do so at their discretion. Addenda must be applied consistently across all LEED credits.	2/1/2010
239*	OPTION 3	EAp2	Minimum Energy Performance	Remove the third and fourth bullet of the section: • Office, school, public assembly, and retail projects less than 100,000 square feet must comply with Section 1 and Section 2 of the Core Performance Guide. • Other project types less than 100,000 square feet implement the basic requirements of the Core Performance Guide.	2/2/2011

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241	Paragraph above Table 1	EAp2	Minimum Energy Performance	Remove paragraph (begins with "The energy cost budget method.")	11/1/2011
241	3. Summary of Referenced Standards	EAp2	Minimum Energy Performance	In the first line of the fourth paragraph, replace “tare” with “are” so the text becomes “Within each section are mandatory…”	2/1/2010
244	Third from last paragraph (starts with "Project teams")	EAp2	Minimum Energy Performance	Remove "energy cost budget or" so that the paragraph reads, "Project teams must meet the minimum efficiency requirements for system components listed in ASHRAE 90.1-2007, Tables 6.8.1A-G, even if using the performance-based compliance method."	11/1/2011
251*	Requirements	EAp3	Fundamental Refrigerant Management	Add the following text as a second paragraph in the section: Existing small HVAC units (defined as containing less than 0.5 pounds of refrigerant) and other equipment, such as standard refrigerators, small water coolers and any other equipment that contains less than 0.5 pounds of refrigerant, are not considered part of the base building system and are not subject to the requirements of this prerequisite.	2/2/2011
252	4. Implementation	EAp3	Fundamental Refrigerant Management	After the first sentence, add, "HCFCs are not part of this prerequisite."	5/9/2011
262	Below Table 1	EAc1	Optimize Energy Performance	In the text "ASHRAE Advanced Energy Design Guide for Small Office Buildings, 2006," replace 2006 with 2004	11/1/2011
276	Calculating the Percentage Improvement	EAc1	Optimize Energy Performance	In the equation box at the end of page, change the percentage improvement from “100 x [(1 – Proposed Building Performance) / Baseline Building Performance]” to “100 X [1 – (Proposed Building Performance/Baseline Building Performance)]” so it becomes the following: $100 \times \left(1 - \frac{\text{Proposed Building Performance}}{\text{Baseline Building Performance}}\right)$	11/2/2009
277	First paragraph on page (begins with “Separate point”)	EAc1	Optimize Energy Performance	At the end of paragraph, add the following text: For projects that are a combination of renovated and new construction, use the following equation to determine minimum energy cost savings percentage for each point threshold for each line of the table: Target Percent = (Existing SF/Total SF)*Existing Percent + (New SF/Total SF)*New Percent Or	2/2/2011

Page	Location	Credit	Credit Title	Issue	Post Date
				$\text{Target Percent} = \left(\frac{\text{Existing SF}}{\text{Total SF}} \times \text{Existing Percent}\right) + \left(\frac{\text{New SF}}{\text{Total SF}} \times \text{New Percent}\right)$	
278	Equation 1	EAc1	Optimize Energy Performance	Change the percentage improvement from "100 x [(1 – Proposed Building Performance) / Baseline Building Performance]" to "100 X [1 – (Proposed Building Performance/Baseline Building Performance)]" so it becomes the following: $100 \times \left(1 - \frac{\text{Proposed Building Performance}}{\text{Baseline Building Performance}}\right)$	4/14/2010
292	First bulleted item	EAc2	On-Site Renewable Energy	Replace the text with "Biofuel-based electrical and thermal systems (see list of eligible biofuels, below)."	4/14/2010
292	First paragraph	EAc2	On-Site Renewable Energy	In the second line, insert "and thermal" after "electrical" so the text becomes "…biofuel-based electrical and thermal systems…"	4/14/2010
292	After the bullet point, "Landfill gas"	EAc2	On-Site Renewable Energy	Following the last bulleted item, add the following text as a new paragraph:"To qualify as an eligible on-site system, the fuel source must meet one of the following conditions: the fuel source must be wholly contained/produced on-site; the project team must demonstrate full ownership of the fuel source, including ownership of all its environmental attributes; or, if the fuel source is not owned, and in cases where use of a substitute, non-renewable fuel is possible, projects must enter into a 2-year contract for purchase of the renewable fuel source, with an ongoing commitment to renew for a period of 10 years total."	11/1/2011
293	Retention of Renewable Energy Environmental Attributes	EAc2	On-Site Renewable Energy	In the first bullet, change "200%" to "100%", so that it reads, "RECs equal to 100% of the system's…"	5/9/2011
293	Retention of Renewable Energy Environmental Attributes	EAc2	On-Site Renewable Energy	Remove the text from "The rationale for the 1-for-2 ratio…" through "This allows green building projects to capture the value of RECs created by on-site renewable while reducing next CO2."	11/3/2010
295	12. Resources	EAc2	On-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
305*	Requirements	EAc4	Enhanced Refrigerant Management	Update equation on bottom of page to read: $\sum (LCGWP + LCODP \times 105) \times Qunit \leq 100$	5/9/2011

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				Qtotal	
310	6. Calculations	EAc4	Enhanced Refrigerant Management	In the first bulleted item, replace the text with "Refrigerant charge (Rc) in pounds of refrigerant per ton of Gross ARI rated cooling capacity."	7/19/2010
311	Second paragraph	EAc4	Enhanced Refrigerant Management	Beginning in the second line of the paragraph beginning with "Refrigerant leakage rate (Lr)…," remove the following text: **(see below text)**	11/2/2009
	(text relating to above issue) Applicants may use alternate values for Lr and Mr, provided their alternative values are approved by USGBC. If their alternative values have not yet been reviewed by USGBC, information demonstrating and documenting their alternative values may be considered for approval. Documentation provided for review must include, at a minimum, the following: ▪ Manufacturers' test data for refrigerant leakage rates (percent per year) ▪ Refrigerant leak detection equipment in the room where the equipment is located ▪ Preventive maintenance program for minimizing equipment refrigerant leakage ▪ Program for recovering and recycling refrigerant at the end of equipment life Projects may not claim zero leakage over the life of the HVAC&R equipment.				
311	Text below third box	EAc4	Enhanced Refrigerant Management	Replace the text with "If there are multiple pieces of base building HVAC&R equipment, use a weighted average of all equipment, based on Gross ARI rated cooling capacity:"	7/19/2010
311	Bottom of page	EAc4	Enhanced Refrigerant Management	Replace the two bulleted items with the following: ●Qunit = Gross ARI rated cooling capacity of an individual HVAC or refrigeration unit (tons) ●Qtotal = Total Gross ARI rated cooling capacity of all HVAC or refrigeration	5/9/2011
315*	NC & Schools	EAc5	Measurement and Verification	Add the following option after OPTION 2: OR OPTION 3 (1 point) Meet MPR 6 through compliance Opttion1: Energy and Water Data Release Form. Projects must register an account in ENERGY STAR's Portfolio Manager tool and share the project file with the USGBC master account.	2/2/2011
316*	CS	EAc5.1	Measurement and Verification – Base	Add the following option after OPTION 2:	2/2/2011

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			Building	OR OPTION 3 (1 point) Meet MPR 6 through compliance Opttion1: Energy and Water Data Release Form. Projects must register an account in ENERGY STAR's Portfolio Manager tool and share the project file with the USGBC master account.	
323	9. Exemplary Performance	EAc5	Measurement and Verification	NC, CS, and Schools projects pursuing Option 3 in addition to Options 1 or 2 are eligible for exemplary performance.	2/2/2011
324	12. Resources	EAc5	Measurement and Verification	At the end of the section, add the following resource: USGBC Building Performance Partnership www.usgbc.org/BPP USGBC's Building Performance Partnership (BPP) engages commercial and residential LEED building owners and managers in an effort to optimize the performance of buildings through data collection, analysis and action. This partnership among USGBC and the thousands of LEED project owners will result in the population of a comprehensive green building performance database, enable standardization of reporting metrics and analytics, and establish new performance benchmarks. USGBC's BPP participants are eligible for annual performance reports, report cards and real-time data interfaces to aid in their building performance goals. Together, USGBC and BPP participants will transform the way the world views building operations.	2/2/2011
319	3. Summary of Referenced Standards	EAc5	Measurement and Verification	In the first paragraph, replace "International Performance Measurement and Verification Protocol, Volume III, EVO 30000.1–2006, Concepts and Options for Determining Energy Savings in New Construction, effective January, 2006" with "International Performance Measurement & Verification Protocol (IPMVP) Volume III: Concepts and Options for Determining Energy Savings in New Construction, April, 2003"	7/19/2010
328	4. Implementation, bullet 3	EAc6	Green Power	Add the following paragraph to the end of item 3: "The vintage of any REC purchased to meet the Green Power credit requirements must be valid according to the Green-e vintage requirements as written on the date of purchase. Project teams must affirm in writing that the purchased RECs are being claimed for use on this particular LEED Project only."	8/1/2011
328	6. Calculations	EAc6	Green Power	After the first sentence, add the following: "If an energy model was used to document compliance with EAc1: Optimize Energy Performance, the data from the energy model must be used as the basis for determining the electricity consumption for this credit."	4/1/2012

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328	Sample Calculation Based on Design Energy Cost	EAc6	Green Power	Replace the entire paragraph with the text “The building’s annual electricity use is 151,816 kWh.”	4/14/2010
329	Required Green Power Quantity	EAc6	Green Power	In first line, remove the following text: This project needs to purchase Green-e–certified green power or RECs equal to 106,271 kWh/yr.” Replace with “This project needs to purchase Green-e–certified green power or RECs equal to 106,271 kWh over a period of 2 years.	12/2/2009
329	2. Default Electricity Consumption	EAc6	Green Power	In the second paragraph, remove the text: The energy intensity multiplied by the square footage of the project represents the total amount of green power (in kWh) that would need to be purchased over a 2-year period to qualify for EA Credit 6 using this option.” Replace with “The energy intensity multiplied by the square footage of the project represents the total amount of electricity consumption. Total electricity consumption X 35% X 2 years represents the total green power (kWh) that would need to be purchased over a 2-year period to qualify for EA Credit 6 using this option.	12/2/2009
330	Default Annual Electricity Consumption	EAc6	Green Power	In the equation, replace the second “**X**” with “**=**” so the text becomes “19,000 (sf) **X** 11.7 (kWh/sf/yr) **=** 2,223,000 (kWh/yr)	12/2/2009
330	Required Green Power	EAc6	Green Power	In the second line of the paragraph, replace “kWh per year” with “kWh over a period of 2 years”	12/2/2009
330	9. Exemplary Performance	EAc6	Green Power	In the first line of the paragraph, change the text “100%” to “70%” so it becomes “Exemplary performance is available to projects that purchase 70% of their electricity from renewable sources.”	11/2/2009
337	Calculating Materials Costs to Achieve MR Credits	n/a	n/a	In the first paragraph, add the following after "…Furniture and Furnishings as long as this is done consistently across all MR credits.", "Exclude artwork, interior plants, and musical instruments."	5/9/2011
349	6. Calculations	MRc1.1	Building Reuse-Maintain Existing Walls, Floors and Roof	After the first sentence of the first paragraph, add the text "New construction additions are not included in the calculation for credit."	8/1/2011
359	6. Calculations	MRc2	Construction Waste Management	Add the following to end of first paragraph: For commingled recycling the average annual recycling rate for a sorting facility is acceptable for recording diversion rates only when	5/9/2011

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				the facility's method of recording and calculating the recycling rate is regulated by a local or state government authority.	
366	6. Calculations	MRc3	Materials Reuse	In the sixth line of the second paragraph, replace “higher value (actual cost) in the calculations” with “higher value (actual cost) cost of the new equivalent item in the calculations”	2/1/2010
371	5. Timeline and Team	MRc4	Recycled Content	At the end of the third line of the second paragraph, insert a period	2/1/2010
380	4. Implementation	MRc5	Regional Materials	Remove the first paragraph: The point of manufacture is considered the place if final assembly of components into the building product that is furnished and installed by tradesworkers. For example, if the hardware comes from Dallas, and lumber comes from Vancouver, and the joist is assembled in Kent, Washington, then the location of the final assembly is Kent, Washington.	7/19/2010
381	Equation 1	MRc5	Regional Materials	Replace the “-“ with “=” so the equation becomes the following: $\text{Percentage Local Materials} = \frac{\text{Total Cost of Local Materials (\$)}}{\text{Total Materials Cost (\$)}} \times 100$	2/1/2010
382	Reused and Salvaged Materials	MRc5	Regional Materials	Move the second and third paragraphs of the section (in order) to the space before the title “Reused and Salvaged Materials”	4/14/2010
~~382~~	~~Reused and Salvaged Materials~~	~~MRc5~~	~~Regional Materials~~	~~Following the third paragraph and before Table 2, insert the following section text:~~ ~~Recycled Materials~~ ~~Recycled materials that satisfy the requirements of MR Credit 4 may also contribute to MR Credit 5. Use the location from which the material was collected or deposited as the point of extraction. In most cases this will be a recycling facility or scrap yard. Disregard the original source of the material. Use the location of the new product manufacturer as the point of manufacture. In some cases the recycling facility may also be the manufacturer.~~ **(revised 7/19/2010, see below)**	~~4/14/2010~~
382	Reused and Salvaged Materials	MRc5	Regional Materials	Following the third paragraph and before Table 2, insert the following section text:	7/19/2010

Page	Location	Credit	Credit Title	Issue	Post Date
				Recycled Materials Recycled materials that satisfy the requirements of MR Credit 4 may also contribute to MR Credit 5. The extraction point for recycled materials is the location of the raw material prior to the manufacturing of the final building product. As such, the point of extraction could include a recycling facility, scrap yard, depository, stockpile, or any other location where the material was collected and packaged for market purchase before manufacturing. It is not necessary to track the origin of the raw material before it arrived at the point of extraction. The point of manufacture for recycled material products is the location of the final finished product manufacturer. However, if products are manufactured at multiple locations then all steps of the manufacturing process(s) must be within the 500 mile radius of the project site in order to qualify for MR Credit 5. In such a situation the point of manufacture should be listed as the location farthest from the project site.	
386	12. Resources	MRc5	Regional Materials	Insert the term “Extraction, harvest or recovery point” in alphabetical order with the accompanying text “**Extraction, harvest or recovery point** refers to the location of raw materials prior to manufacturing of the building material or product that is furnished and installed in the project building.”	7/19/2010
387*	Requirements	MRc6	Rapidly Renewable Materials	In the second line of the paragraph, replace "plants" with "agricultural products"	8/1/2011
394	Environmental Issues	MRc7 (MRc6 for CS)	Certified Wood	In fifth line of the paragraph, insert spaces between the words of the text so it becomes “…perspective, the elements of responsible FSC-certified forestry include sustainable timber harvesting…”	11/2/2009
396	Chain-of-Custody Requirements	MRc7 (MRc6 for CS)	Certified Wood	At the end of the first paragraph, insert the following text: Entities that install an FSC-certified product on the project building/site (typically project contractors or subcontractors, but also furniture installers and the like), do not require CoC certification as long as they do not modify the product’s packaging or form except as is required for installation. Contractors and sub-contractors that temporarily possess FSC-certified material prior to installation should be careful not mix or contaminate the FSC-certified material with non-FSC-certified material.	7/19/2010

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397	6. Calculations	MRc7 (MRc6 for CS)	Certified Wood	Replace the first paragraph with the following: List all new wood products (not reclaimed, salvaged, or recycled) on the project and identify which components are FSC certified. The cost of all new wood products, both FSC certified and not, must be tallied. Develop a spreadsheet to calculate the amount of new wood and the amount of FSC certified wood permanently installed on the project. Wood products that are not FSC certified and those that are identified on invoices as FSC Pure and FSC Mixed Credit should be valued at 100% of the product cost unless the product is an assembly in which case only the new wood portion of the product counts for credit, see the guidance for assemblies in this credit. Wood products identified as FSC Mixed (NN)% should be valued at the indicated percentage of their cost, for example, a product identified as FSC Mixed 75% should be valued at 75% of the cost. FSC does not allow partial claims of certified products, wood products with non-controlled wood components will not earn FSC certification. The entire product must be FSC-certified, Pure, Mixed (NN)%, or Mixed Credit to contribute towards the credit threshold for MR Credit 7. For example, a product that includes multiple wood components, like a door, the entire product must be FSC certified. The door cannot be labeled, or claim, that only the door core is FSC certified.	7/19/2010
398	Assemblies	MRc7 (MRc6 for CS)	Certified Wood	In the first sentence of the first paragraph replace, "such as windows and furniture systems that combine wood and nonwood materials" with "such as windows, doors, and some furniture that combine multiple material types, only the new wood portion can be applied toward the credit." In the first paragraph, replace the second sentence with “To determine the value of the wood component(s), calculate the amount of new wood as a percentage of the total weight or volume and the amount of FSC-certified wood as a percentage of the total weight or volume.”	7/19/2010 *(updated 8/1/2011)*
405	Summary	IEQ Overview	n/a	In the “Schools” column of the table, in the 24th row titled “IEQ Credit 8.2,” replace “1-3 points” with “1 point”	11/2/2009
407*	Requirements	IEQp1	Minimum Indoor Air Quality Performance	Reformat the requirements section so it becomes the following:	1/8/2010 *(updated 5/3/2010)*
	(text relating to above issue) **NC, SCHOOLS & CS**				

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	Meet the minimum requirements of Sections 4 through 7 of ASHRAE Standard 62.1-2007, Ventilation for Acceptable Indoor Air Quality (with errata but without addenda[1]). AND CASE 1. Mechanically Ventilated Spaces Mechanical ventilation systems must be designed using the ventilation rate procedure or the applicable local code, whichever is more stringent. CASE 2. Naturally Ventilated Spaces Naturally ventilated buildings must comply with ASHRAE Standard 62.1-2007, Paragraph 5.1 (with errata but without addenda[1]). **CS** CS Additional Requirement Mechanical ventilation systems installed during core and shell construction must be capable of meeting projected ventilation levels based on anticipated future tenant requirements.				
414	13. Definitions, Breathing zone	IEQp1	Minimum Indoor Air 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
415*	Requirements	IEQp2	Environmental Tobacco Smoke (ETS) Control	Remove the heading "CASE 1. All Projects"	4/14/2010
415*	NC & CS box	IEQp2	Environmental Tobacco Smoke (ETS) Control	Below the "OPTION 2" heading, insert the heading "CASE 1. Non-Residential Projects"	4/14/2010
416*	NC & CS box	IEQp2	Environmental Tobacco Smoke (ETS) Control	In the "CASE 2" heading, remove the word "Only" so the text becomes "CASE 2. Residential and Hospitality Projects"	4/14/2010
416*	CASE 2	IEQp2	Environmental Tobacco Smoke (ETS) Control	In the third line of the last paragraph, remove the hyperlink "(http://www.energy.ca.gov/title24/residential_manual)"	4/14/2010
416*	Footnote	IEQp2	Environmental Tobacco Smoke (ETS) Control	In the second line of the text, replace "Case 1, Option 2" with "Option 2, Case 1"	4/14/2010

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~~418~~	~~3. Summary of Referenced Standards~~	~~IEQp2~~	~~Environmental Tobacco Smoke (ETS) Control~~	~~Below the title of the second standard provided, insert the hyperlink http://www.energy.ca.gov/title24/residential_manual~~ **(removed 7/19/2010)**	~~4/14/2010~~
421	13. 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
423*	Schools box	IEQp3	Minimum Acoustical Performance	Replace the text in the box with the following: **(see below text)**	4/14/2010

(text relating to above issue)

Background Noise

Achieve a maximum background noise level[1] from heating, ventilating and air conditioning (HVAC) systems in classrooms and other core learning spaces of 45 dBA.

AND

Reverberation Time

Design classrooms and other core learning spaces to include sound-absorptive finishes to sufficiently limit reverberation in classrooms and other core learning spaces.

CASE 1. Classrooms and Core Learning Spaces < 20,000 Cubic Feet

For classrooms and core learning spaces less than 20,000 cubic feet, options for compliance include:

Option 1: Minimum NRC

For each room, confirm that the total surface area finished with a material with a Noise Reduction Coefficient (NRC) of 0.70 or higher equals or exceeds the total ceiling area (excluding lights, diffusers and grilles).

OR

Option 2: Compliance with ANSI Standard S12.60-2002

Confirm through calculations described in ANSI Standard S12.60-2002 that rooms are designed to meet reverberation time requirements as specified in that standard.

CASE 2. Classrooms and Core Learning Spaces ≥ 20,000 Cubic Feet

For classrooms and core learning spaces 20,000 cubic feet or greater, confirm through calculations described in ANSI Standard S12.60-2002 that rooms are designed to have a reverberation time of 1.5 seconds or less.

Page	Location	Credit	Credit Title	Issue	Post Date
	[1] Recommended methodologies and best practices for mechanical system noise control are described in Annex B of ANSI Standard S12.60-2002 and the 2007 HVAC Applications ASHRAE Handbook, Chapter 47 on Sound and Vibration Control (with errata but without addenda).				
426	Suggested Ways to Reduce Reverberation	IEQp3	Minimum Acoustical Performance	Replace the fourth bulleted item with the following text: If the classroom has a volume of over 13,500 cubic feet, acoustical panels on both ceiling and walls may be needed to achieve appropriate reverberation time. For this reason, project teams with room volumes between 13,500 cubic feet and 20,000 cubic feet are strongly encouraged to use the methods described in ANSI Standard S12.60-2002 to confirm that the room design meets the intent of the prerequisite. The option to confirm compliance by showing an NRC of .7 or higher for 100% of the ceiling area (or equivalent) is still available for rooms of this size, but it does not guarantee appropriate reverberation times. Note that carpet adds little to reverberation control, although it is useful for controlling self-noise (chair movement, footfalls, etc), especially in lower grade levels.	4/14/2010
428	6. Calculations	IEQp3	Minimum Acoustical Performance	Remove the following text: **(see below text)**	4/14/2010
	(text relating to above issue) CASE 1. Noise Reduction Coefficient and Ceiling Area OPTION 1 Calculate the volume of the classroom to confirm that total enclosed volume is less than 20,000 cubic feet. Specify ceiling finish materials with an NRC of 0.70 or higher for 100% of the ceiling area, excluding diffusers, grilles, and light fixtures. NRC ratings for acoustical ceiling tile, ceiling panels, and other acoustical materials are available from manufacturers. OPTION 2 Calculate the volume of the classroom to confirm that the total enclosed volume is less than 20,000 cubic feet. Calculate the total ceiling area for the classroom, excluding diffusers, grilles, and light fixtures.				

Page	Location	Credit	Credit Title	Issue	Post Date
	Insert the following text: Minimum NRC First, calculate the volume of the classroom. This option is available for rooms less than 20,000 cubic feet, however, the ANSI Standard S12.60-2002 option is strongly encouraged for rooms between 13,500 and 20,000 cubic feet. Second, calculate the total ceiling area for the classroom, excluding diffusers, grilles, and light fixtures. Third, **[resume text: specify ceiling finish….]**				
428	6. Calculations	IEQp3	Minimum Acoustical Performance	Remove the following text: CASE 2. Reverberation Time Core learning spaces with an enclosed volume of 20,000 cubic feet or larger must meet an RT of 1.5 seconds. For each core learning space, the RT must be calculated separately for the 500 Hz, 1,000 Hz, and 2,000 Hz bands; all 3 RT values must meet the stated requirement. Insert the following text: Compliance with ANSI Standard S12.60-2002 Core learning spaces with an enclosed volume of 10,000 cubic feet or less must meet an RT of .6 seconds or less, 10,000 to 20,000 cubic feet must meet an RT of .7 seconds or less, and 20,000 cubic feet or larger must meet an RT of 1.5 seconds or less.	4/14/2010
431	CASE 2	IEQp3	Minimum Acoustical Performance	Replace the third paragraph beginning with “Determine total absorption…" with the following text: Determine the typical residual sound absorption factor (AR): Multiply the room area by 15%. This factor accounts for the acoustically untreated room surfaces and for the furnishings. Determine total absorption (A) by adding the residual sound absorption factor (AR) and the absorption from the room materials: gypsum board walls on studs, linoleum floor, ordinary window glass, and acoustical ceiling tiles (NRC = 0.70; sound absorption coefficient at 500 Hz = 0.72, from manufacturer’s data). 500 Hz calculation data:	4/14/2010

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433	Definitions	IEQp3	Minimum Acoustical Performance	In alphabetical order, add the following definition for **ancillary learning spaces**, "Ancillary learning spaces are spaces where good communication is important to a student's educational progress but for which the primary educational functions are informal learning, social interaction or similar activity other than formal instruction. These areas include, but are not limited to, corridors, cafeterias, gymnasia, and indoor swimming pools."	11/1/2011
433	Definitions	IEQp3	Minimum Acoustical Performance	Revise the definition for **core learning spaces** to be, "Core learning spaces are spaces for educational activities where the primary functions are teaching and learning and where good speech communication is critical to a student's academic achievement. These spaces include, but are not limited to, classrooms, enclosed or open plan), instructional pods or activity areas, group instruction rooms, conference rooms, libraries, offices, speech clinics, offices used for educational purposes and music rooms for instruction, practice and performance."	11/1/2011
435*	CASE 1	IEQc1	Outdoor Air Delivery Monitoring	Update the footnote references in the section so the text becomes the following: Monitor CO2 concentrations within all densely occupied spaces (those with a design occupant density of 25 people or more per 1,000 square feet). CO2 monitors must be between 3 and 6 feet above the floor.[1] Provide a direct outdoor airflow measurement device capable of measuring the minimum outdoor air intake flow with an accuracy of plus or minus 15% of the design minimum outdoor air rate, as defined by ASHRAE 62.1-2007 (with errata but without addenda[2]) for mechanical ventilation systems where 20% or more of the design supply airflow serves nondensely occupied spaces.	7/19/2010
435*	CASE 2	IEQc1	Outdoor Air Delivery Monitoring	At the end of the paragraph, remove the footnote "[2]"	7/19/2010
435*	Footnotes	IEQc1	Outdoor Air Delivery Monitoring	Re-number the footnotes so they become the following: [1] CO2 monitoring is required in densely occupied spaces, in addition to outdoor air intake flow measurement. [2] Project teams wishing to use ASHRAE approved addenda for the purposes of this credit may do so at their discretion. Addenda must be applied consistently across all LEED credits.	7/19/2010

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435*	Footnotes	IEQc1	Outdoor Air Delivery Monitoring	Remove Footnote, "CO2 monitoring is required in densely occupied spaces, in addition to outdoor air intake flow measurement."	5/9/2011
437	Outdoor Air Flow Monitoring	IEQc1	Outdoor Air Delivery Monitoring	Replace the last two sentences of the paragraph with the following text: To satisfy the requirements of this credit, the measurement device must be capable of measuring the minimum outdoor air intake flow with an accuracy of plus or minus 15% when the system is providing the design minimum outdoor air rate. When the measurement device generates a measurement of outdoor air intake flow that is more than 10% below the design outdoor air minimum values, the monitoring system should be configured to deliver a visible or audible alert to the system operator to indicate that operational adjustments may be necessary.	11/3/2010
441	13. Definitions, Breathing zone	IEQc1	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
442	Definitions	IEQc1	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
442	Definitions	IEQc1	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
442	Definitions	IEQc1	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
442	Definitions	IEQc1	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
443*	CASE 2	IEQc2	Increased Ventilation	In the first paragraph, remove the text "Design natural ventilation systems for occupied spaces to meet the recommendations set forth	12/2/2009

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				in the Carbon Trust "Good Practice Guide 237" (1998)."	
443*	CASE 2	IEQc2	Increased Ventilation	In the fourth line of the paragraph, replace the text "1.18" with “2.8.”	12/2/2009
443*	OPTION 1	IEQc2	Increased Ventilation	Replace the paragraph text with: 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
451	13. Definitions, Breathing zone	IEQc2	Increased Ventilation	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
456	Source Control	IEQc3.1	Construction Indoor Air Quality Management Plan – During Construction	Starting in the fifth line of the paragraph, remove the text “Finally, exhaust fumes from idling vehicles and gasoline-fueled tools.”	2/1/2010
461*	OPTION 2. Air Testing	IEQc3.2	Construction Indoor Air Quality Management Plan – Before Occupancy	(1) In the first sentence of the paragraph, replace the text "and as additionally detailed in the LEED Reference Guide for Green Building Design and Construction, 2009 Edition" with "or the ISO method listed in the table below. Testing must be done in accordance with one standard; project teams may not mix requirements from the EPA Compendium of Methods with ISO" (2) In the table, insert two columns to the right (refer to supplementary guidance: https://www.usgbc.org/ShowFile.aspx?DocumentID=9318) (3) In the third bullet item, replace the second sentence (begins with "For each portion") with "The number of sampling locations must include the entire building and all representative situations."	5/9/2011
465	Figure 1	IEQc3.2	Construction Indoor Air Quality Management Plan –	To the left side of graph, remove a zero from the number “60000” so it becomes “6000”	11/2/2009

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			Before Occupancy		
466	Air Quality Testing	IEQc3.2	Construction Indoor Air Quality Management Plan – Before Occupancy	In the fourth paragraph, add "and the ISO methods" after "The protocols described in the referenced publication, EPA's Compendium of Methods for the Determination of Air Pollutants in Indoor Air,"	5/9/2011
466	Air Quality Testing	IEQc3.2	Construction Indoor Air Quality Management Plan – Before Occupancy	In the fourth paragraph, add in after "...the greatest presumed contaminant source strength", "Determine the number of ventilation systems serving the building. Then, determine if the individual floor plates served by each single ventilation system are larger or smaller than 25,000 square feet. If they are smaller, take at least one sample for every 25,000 square feet, or fraction thereof, served by a single ventilation system. If they are larger, take one sample per floor plate. For example, a 110,000 square foot building with ten 11,000 square foot floors, served by a single ventilation system, needs only five samples – one per 25,000 square feet (or fraction thereof) because each 11,000 foot floor plate is smaller than 25,000 square feet. However, a building with ten 30,000 square foot floors, also served by a single ventilation system, needs ten samples for the building because each 30,000 floor plate is larger than the 25,000 sq ft criterion." Delete, "For example" in the following sentence.	5/9/2011
466	Air Quality Testing	IEQc3.2	Construction Indoor Air Quality Management Plan – Before Occupancy	In the fourth paragraph, add in after "...at normal daily start times and at the minimum outside airflow rate.", "For projects with standardized identical construction, such as classrooms in a school or multifamily residential units, identify which rooms are identical in construction, finishes, configuration, square footage, and HVAC systems. For these scenarios, project teams can sample the identical spaces by testing one in seven."	5/9/2011
469	Definitions	IEQc3.2	Construction Indoor Air Quality Management Plan – Before Occupancy	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
469	Definitions	IEQc3.2	Construction Indoor Air Quality Management Plan – Before Occupancy	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
471*	Requirements table	IEQc4.1	Low-Emitting Materials – Adhesives and Sealants	In the "Sealants" section, remove the items "Nonmembrane roof, 300" and "Single-ply roof membrane, 450"	11/3/2010

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471	Requirements	IEQc4.1	Low-Emitting Materials –Adhesives and Sealants	Add footnote number 2 at the end of the first bullet, "This table excludes adhesives and sealants listed in Rule #1168 that are non-building related or are integral to the roof waterproofing system."	11/3/2010
474	Table 1	IEQc4.1	Low-Emitting Materials – Adhesives and Sealants	In the "Sealants" section, remove the items "Nonmembrane roof, 300" and "Single-ply roof membrane, 450"	11/3/2010
474	Table 1	IEQc4.1	Low-Emitting Materials – Adhesives and Sealants	Below the table, insert the note: This table excludes adhesives and sealants integral to the water-proofing system or that are not building related.	11/3/2010
476	Schools box	IEQc4.1	Low-Emitting Materials – Adhesives and Sealants	At the end of box, insert the following text and table: Alternative Compliance Path LEED 2009 for Schools project teams may substitute LEED 2009 for New Construction IEQ Credit 4 Low-Emitting Materials credits in place of corresponding LEED 2009 for Schools IEQ Credit 4 Low-Emitting Materials credits. LEED for Schools project teams may still achieve a maximum of 4 points under IEQ Credit 4 regardless of the compliance path chosen, per the table below. **(see below table)**	12/2/2009

(table relating to above issue)

Low-Emitting Materials Credit Options (1 point each, for a maximum of 4 points)	**Compliance Paths**
Adhesives & Sealants	LEED 2009 for Schools IEQ Credit 4.1 – Adhesives & Sealants **OR** LEED 2009 for New Construction IEQ Credit 4.1 – Adhesives & Sealants
Paints & Coatings	LEED 2009 for Schools IEQ Credit 4.2 – Paints & Coatings **OR** LEED 2009 for New Construction IEQ Credit 4.2 – Paints & Coatings
Flooring Systems	LEED 2009 for Schools IEQ Credit 4.3 – Flooring Systems **OR** LEED 2009 for New Construction IEQ Credit 4.3 – Flooring Systems
Composite Wood & Agrifiber Products	LEED 2009 for Schools IEQ Credit 4.4 – Composite Wood & Agrifiber Products **OR** LEED 2009 for New Construction IEQ Credit 4.4 – Composite Wood &

Page	Location	Credit	Credit Title	Issue	Post Date
				Agrifiber Products Furniture & Furnishings — LEED 2009 for Schools IEQ Credit 4.5 – Furniture & Furnishings Ceiling & Wall Systems — LEED 2009 for Schools IEQ Credit 4.6 – Ceiling & Wall Systems	
477	9. Exemplary Performance	IEQc4	Low-Emitting Materials – Adhesives and Sealants	Replace text with the following: **NC & Schools**: This credit is not eligible for exemplary performance under the Innovation and Design section. **CS**: Projects that require and enforce tenants to meet the requirements in IEQ Credit 4 (4.1, 4.2, 4.3, and 4.4) throughout the tenant space are eligible for exemplary performance under the Innovation in Design section.	2/2/2011
481*	Schools box	IEQc4.2	Low-Emitting Materials – Paints and Coatings	Replace, "installed in the building interior" with "used on the interior of the building (i.e., inside of the weatherproofing system and applied on-site)"	5/9/2011
481*	NC & CS box	IEQc4.2	Low-Emitting Materials – Paints and Coatings	In the second line of the third bullet item, replace “must1” with “must” so the text becomes “…interior elements must not exceed the…”	1/8/2010
481*	NC & CS box	IEQc4.2	Low-Emitting Materials – Paints and Coatings	Replace the text of the third bullet with the following: Clear wood finishes, floor coatings, stains, primers, sealers, and shellacs applied to interior elements must not exceed the VOC content limits established for those coating types in South Coast Air Quality Management District (SCAQMD) Rule 1113, Architectural Coatings, rules in effect on January 1, 2004.	7/19/2010
482	3. Summary of Referenced Standards, Green Seal Standard GS-11	IEQc4.2	Low-Emitting Materials – Paints and Coatings	Replace the hyperlink “http://www.greenseal.org/certification/standards/paints_and_coatings.pdf” with “http://www.greenseal.org/certification/standards/paints_GS_11.pdf”	4/14/2010
~~482~~	~~3. Summary of Referenced Standards, Green Seal Standard GS-11~~	~~IEQc4.2~~	~~Low-Emitting Materials – Paints and Coatings~~	~~In the fourth line of the paragraph, remove the text “…Tables 1 and 2 summarize Green Seal Standard GS-11”~~ **(removed 4/14/2010)**	~~11/2/2009~~

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482	3. Summary of Referenced Standards, Green Seal Standard GC-03	IEQc4.2	Low-Emitting Materials – Paints and Coatings	Replace the sentence and table below the resource with the text "The GC-03 VOC limits applicable for this credit are summarized in Table 1. IEQc4.2 Applicable VOC Limits."	4/14/2010
483	South Coast Air Quality Management District (SCAQMD) Rule 1113	IEQc4.2	Low-Emitting Materials – Paints and Coatings	At the end of the paragraph, insert the text "The SCAQMD Rule 1113 VOC limits applicable for this credit are summarized in Table 1. IEQc4.2 Applicable VOC Limits. "	4/14/2010
483	Table 1	IEQc4.2	Low-Emitting Materials – Paints and Coatings	Replace table with the table in the supplemental document: https://www.usgbc.org/ShowFile.aspx?DocumentID=8608	4/14/2010 *(updated 11/3/2010)*
~~483~~	~~Table 1~~	~~IEQc4.2~~	~~Low-Emitting Materials – Paints and Coatings~~	~~For "Nonflat Coatings" in row nineteen, remove the value "150" from the "Current Limit" column and insert in the "1/1/03" column~~ **(removed 4/14/2010, see above)**	~~1/8/2010~~
~~484~~	~~Table 2~~	~~IEQc4.2~~	~~Low-Emitting Materials – Paints and Coatings~~	~~On the top row of the table in the second column, remove "Limit VOCs (g/L)" and replace with "Limit VOCs (g/L) minus water"~~ **(removed 11/3/2010, see below)**	~~1/8/2010~~
~~484~~	~~Table 2~~	~~IEQc4.2~~	~~Low-Emitting Materials – Paints and Coatings~~	~~In the second column of the second row, remove the text "27 parts per billion" and insert "120"~~ **(removed 11/3/2010, see below)**	~~1/8/2010~~
484	Table 2	IEQc4.2	Low-Emitting Materials – Paints and Coatings	Remove Table 2. Standard VOC Limits	11/3/2010
486	Second term description	IEQc4.2	Low-Emitting Materials – Paints and Coatings	Insert the term "Sealer" in alphabetical order with the accompanying text "**Sealers** are coatings applied to either block materials from penetrating into or leaching out of a substrate, to prevent subsequent coatings from being absorbed by the substrate, or to prevent harm to subsequent coatings by materials in the substrate."	1/8/2010
484	9. Exemplary Performance	IEQc4	Low-Emitting Materials – Paints and Coatings	Replace text with the following: **NC & Schools** This credit is not eligible for exemplary performance under the Innovation and Design section. **CS** Projects that require and enforce tenants to meet the	2/2/2011

Page	Location	Credit	Credit Title	Issue	Post Date
				requirements in IEQ Credit 4 (4.1, 4.2, 4.3, and 4.4) throughout the tenant space are eligible for exemplary performance under the Innovation in Design section.	
487*	OPTION 1	IEQc4.3	Low-Emitting Materials – Flooring Systems	Replace the text of the fourth bulleted item with the following: All hard surface flooring must meet the requirements of the FloorScore² standard (current as of the date of this rating system, or more stringent version) as shown with testing by an independent third-party. Mineral-based finish flooring products such as tile, masonry, terrazzo, and cut stone without integral organic-based coatings and sealants and unfinished/untreated solid wood flooring qualify for credit without any IAQ testing requirements. However, associated site-applied adhesives, grouts, finishes and sealers must be compliant for a mineral-based or unfinished/untreated solid wood flooring system to qualify for credit.	4/14/2010
487*	OPTION 1	IEQc4.3	Low-Emitting Materials – Flooring Systems	Remove the fifth bulleted item	4/14/2010
488*	OPTION 2	IEQc4.3	Low-Emitting Materials – Flooring Systems	At the end of the paragraph, add the following text: Mineral-based finish flooring products such as tile, masonry, terrazzo, and cut stone without integral organic-based coatings and sealants and unfinished/untreated solid wood flooring qualify for credit without any IAQ testing requirements. However, associated site-applied adhesives, grouts, finishes and sealers must be compliant for a mineral-based or unfinished/untreated solid wood flooring system to qualify for credit.	4/14/2010
492	9. Exemplary Performance	IEQc4	Low-Emitting Materials – Flooring Systems	Replace text with the following: **NC & Schools**: This credit is not eligible for exemplary performance under the Innovation and Design section. **CS**: Projects that require and enforce tenants to meet the requirements in IEQ Credit 4 (4.1, 4.2, 4.3, and 4.4) throughout the tenant space are eligible for exemplary performance under the Innovation in Design section.	2/2/2011

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

Page	Location	Credit	Credit Title	Issue	Post Date
				Using Small-Scale Environmental Chambers, including 2004 Addenda, with testing conducted in an independent third-party air quality testing laboratory.	
511*	NC, SCHOOLS & CS box	IEQc5	Indoor Chemical and Pollutant Source Control	Replace the third bullet item with the following text: • In mechanically ventilated buildings, each ventilation system that supplies outdoor air shall comply with the following: o Particle filters or air cleaning devices shall be provided to clean the outdoor air at any location prior to its introduction to occupied spaces. o These filters or devices shall be rated a minimum efficiency reporting value (MERV) of 13 or higher in accordance with ASHRAE Standard 52.2. o Clean air Filtration media shall be installed in all air systems after completion of construction and prior to occupancy.	7/19/2010
511*	NC, SCHOOLS & CS box	IEQc5	Indoor Chemical and Pollutant Source Control	Remove the fourth bullet item: Provide containment (i.e. a closed container for storage for off-site disposal in a regulatory compliant storage area, preferably outside the building) for appropriate disposal of hazardous liquid wastes in places where water and chemical concentrate mixing occurs (e.g., housekeeping, janitorial and science laboratories).	7/19/2010
512	Environmental Issues	IEQc5	Indoor Chemical and Pollutant Source Control	Replace the paragraph with the following: This credit recognizes projects that reduce or mitigate human contact with airborne chemicals and particles. Additional materials and energy may be required to provide entryway systems and isolated chemical-use areas.	7/19/2010
513	4. Implementation	IEQc5	Indoor Chemical and Pollutant Source Control	In the fourth line of the paragraph, remove the text "…; in addition, the storage, mixing and disposal of housekeeping liquids may adversely affect human health"	7/19/2010
513	Entryway Systems	IEQc5	Indoor Chemical and Pollutant Source Control	In the first and second paragraphs, replace both instances of "high-traffic" with "regularly used"	7/19/2010
514	Hazardous Chemical Areas	IEQc5	Indoor Chemical and Pollutant Source Control	Remove the sixth paragraph of the section: Rooms where chemicals are mixed and disposed of should be isolated. These rooms should include sinks and/or drains in appropriate locations to ensure that chemicals are disposed of	7/19/2010

Page	Location	Credit	Credit Title	Issue	Post Date
				properly and are not dumped into inadequate spaces (e.g., restrooms). Local codes requiring separate drain lines must be followed.	
515	5. Timeline and Team	IEQc5	Indoor Chemical and Pollutant Source Control	Replace the second paragraph with the following text: During the design phase, the architect should consider the location and type of entryway systems and allow adequate space for entryway systems. During the schematic design phase, the team should confirm the locations of areas where chemicals and high-volume copy, fax, and print equipment will be used. It may be possible to locate such rooms above or adjacent to 1 another to make individual exhaust systems unnecessary and minimize exhaust ductwork. Also confirm that chemical and equipment rooms are properly isolated from adjacent spaces. The mechanical engineer should incorporate MERV 13 filters, dedicated exhaust systems; these elements will affect the fan sizing, shaft layout, and underground coordination.	7/19/2010
520	Environmental Issues	IEQc6.1	Controllability of Systems – Lighting	In third line of the first paragraph, replace the word “taks” with “tasks” so it becomes “‘…for specific tasks, general…”	11/2/2009
526	Definitions	IEQc6.1	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
526	Definitions	IEQc6.1	Controllability of Systems – Lighting	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
529	Individual Thermal Comfort	IEQc6.2	Controllability of Systems – Thermal Comfort	Add the following paragraph after the second paragraph: Individual comfort plug-in devices are acceptable for meeting the intent of this credit provided they are included in the proposed design model but not in the baseline model for EA Prerequisite 2: Minimum Energy Performance and EA Credit 1:Optimize Energy Performance	2/2/2011
532	Definitions	IEQc6.2	Controllability of Systems – Thermal Comfort	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

Page	Location	Credit	Credit Title	Issue	Post Date
532	Definitions	IEQc6.2	Controllability of Systems – Thermal Comfort	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
542	Definitions	IEQc7.1	Thermal Comfort - Design	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
542	Definitions	IEQc7.1	Thermal Comfort - Design	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
545	First paragraph on page (above "Planning and Design Phase" section)	IEQc7.2	Thermal Comfort - Verification	At the end of the paragraph, add the addition text "For residential projects, the occupants have a higher level of control over the building systems and are therefore not eligible for this credit."	7/19/2010
547	Definitions	IEQc7.2	Thermal Comfort - Verification	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
547	Definitions	IEQc7.2	Thermal Comfort - Verification	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	IEQc8.1	Daylights and Views - Daylight	Replace section with that of the supplementary document. https://www.usgbc.org/ShowFile.aspx?DocumentID=9376	5/9/2011
~~**549***~~	~~OPTION 1~~	~~IEQc8.1~~	~~Daylights and Views - Daylight~~	~~In the first line of the paragraph, replace "75% (NC, Schools & CS) or 90% (Schools Only) or more of all regularly occupied spaces" with "applicable spaces" so the text becomes "Demonstrate through computer simulation that the applicable spaces achieve…"~~	11/3/2010
~~**551***~~	~~OPTION 3~~	~~IEQc8.1~~	~~Daylights and Views - Daylight~~	~~In the first paragraph, replace the first sentence with "Demonstrate through records of indoor light measurements that a minimum~~	11/3/2010

Page	Location	Credit	Credit Title	Issue	Post Date
				~~daylight illumination level of 25 fc has been achieved in the applicable spaces."~~	
~~**551***~~	~~OPTION 4~~	~~IEQc8.1~~	~~Daylights and Views - Daylight~~	~~In the first paragraph, replace the first sentence with "Any of the above calculation methods may be combined to document the minimum daylight illumination in the applicable spaces."~~	11/3/2010
~~556~~	~~First bullet~~	~~IEQc8.1~~	~~Daylights and Views - Daylight~~	~~In the third line, replace "2" with "5" so the text becomes "Figure 5 illustrates…"~~	2/1/2010
~~557~~	~~First paragraph~~	~~IEQc8.1~~	~~Daylights and Views - Daylight~~	~~In the fourth line of the paragraph, replace "3" with "2" so the text becomes "See Figure 2"~~	2/1/2010
~~559~~	~~OPTION 3~~	~~IEQc8.1~~	~~Daylights and Views - Daylight~~	~~In the third line of the fourth bulleted item, replace "4" with "3" so the text becomes "See Table 3"~~	2/1/2010
~~564~~	~~13. Definitions~~	~~IEQc8.1~~	~~Daylights and Views - Daylight~~	~~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
564	Definitions	IEQc8.1	Daylight and Views-Daylight	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
564	Definitions	IEQc8.1	Daylight and Views-Daylight	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
564	Definitions	IEQc8.1	Daylight and Views-Daylight	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
564	Definitions	IEQc8.1	Daylight and Views-Daylight	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
567	6. Calculations	IEQc8.2	Daylight and Views-Views	In the first paragraph, replace the text "Movable furniture and partitions are included in the scope of this credit calculation. See	5/9/2011

Page	Location	Credit	Credit Title	Issue	Post Date
				Figure 2." with "Movable furniture and partitions are not included in the scope of this credit calculation. See Figure 2. Movable furniture and partitions are those that can moved to provide access to the view by the user without the need for tools or assistance from special trades and facilities management."	
570	Figure 4	IEQc8.2	Daylight and Views-Views	Change figure title to "Figure 4. Unobstructed View through Window over Low Partition."	5/9/2011
573	13. Definitions	IEQc8.2	Daylight and Views-Views	After the definition for glare, add "Movable furniture and partitions are those that can be moved to provide access to the view by the user without the need for tools or assistance from special trades and facilities management."	5/9/2011
573	Definitions	IEQc8.2	Daylight and Views-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
573	Definitions	IEQc8.2	Daylight and Views-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
573	Definitions	IEQc8.2	Daylight and Views-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
573	Definitions	IEQc8.2	Daylight and Views-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
575*	Intent	IEQc9	Enhanced Acoustical Performance	In the first line, replace “facilitates” with “facilitate”	11/3/2010
575*	Sound Transmission	IEQc9	Enhanced Acoustical Performance	Replace the text "the building shell, classroom partitions and other core learning space partitions" with "classrooms and other core learning spaces" so that the first sentence reads, "Design classrooms and other core learning spaces to meet the Sound Transmission Class (STC) requirements of ANSI Standard S12.60-2002, Acoustical Performance Criteria, Design Requirements and Guidelines for Schools, except windows, which must meet an STC rating of at least 35."	11/1/2011

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576	Summary of Referenced Standards	IEQc9	Enhanced Acoustical Performance	In the first standard (ANSI), remove "/ASHRAE"	11/3/2010
580	Bullet item at top of page	IEQc9	Enhanced Acoustical Performance	In the second line of the bulleted item, replace "45 dBA" with "40 dBA"	8/1/2011
582	Definitions	IEQc9	Enhanced Acoustical Performance	In alphabetical order, add the following definition for ancillary learning spaces, "Ancillary learning spaces are spaces where good communication is important to a student's educational progress but for which the primary educational functions are informal learning, social interaction or similar activity other than formal instruction. These areas include, but are not limited to, corridors, cafeterias, gymnasia, and indoor swimming pools."	11/1/2011
582	Definitions	IEQc9	Enhanced Acoustical Performance	Revise the definition for **core learning spaces** to be, "Core learning spaces are spaces for educational activities where the primary functions are teaching and learning and where good speech communication is critical to a student's academic achievement. These spaces include, but are not limited to, classrooms, enclosed or open plan), instructional pods or activity areas, group instruction rooms, conference rooms, libraries, offices, speech clinics, offices used for educational purposes and music rooms for instruction, practice and performance."	11/1/2011
590	Footnote 20	IEQp2	Environmental Tobacco Smoke (ETS) Control	In the footnote that references Figure 2 on page 420 of IEQp2, at the end the text add the following: "This information is subject to change based on the ongoing indoor smoking legislation of each state."	11/2/2009
593*	PATH 1	IDc1	Innovation in Design	In the first line of the first paragraph, insert the text "Achieve significant, measurable environmental performance using a strategy not addressed" before "in the LEED 2009 for New Construction…"	1/8/2010
593*	PATH 2	IDc1	Innovation in Design	In the first line of the first paragraph, replace the text "LEED 2009 for Schools" with "LEED 2009 for New Construction, Schools and Core & Shell"	1/8/2010
593*	PATH 2	IDc1	Innovation in Design	At the end of the second line of the second paragraph, remove the quotation mark so the text becomes "…PATH 2 - Exemplary Performance."	1/8/2010
593*	NC, Schools & CS box	IDc1	Innovation in Design	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	4/14/2010

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				than 1 pilot credit; however, a maximum of 1 point will be awarded.	
593*	PATH 3. Pilot Credit	IDc1	Innovation in Design	In the header, change “(1 point)” to “(1 – 5 points for NC and CS, 1 - 4 points for Schools)”	2/2/2011
593*	PATH 3. Pilot Credit	IDc1	Innovation in Design	Replace the last sentence of the paragraph with “NC and CS projects may pursue up to 5 Pilot Credits total, Schools projects may pursue up to 4 Pilot Credits total.”	2/2/2011
609*	Requirements	RPc1	Regional Priority	In the second paragraph, replace the last sentence with "The USGBC has prioritized credits for projects located in the U.S., Puerto Rico, the U.S. Virgin Islands, and Guam. All other international projects should check the database for eligible Regional Priority credits."	11/3/2010
613	Table 2	n/a	n/a	In the "Restaurant" row, replace the FTE of 225 with 435	5/9/2011
619	Table 2	n/a	n/a	Replace the fourth bullet "EA Credit 1 (performance path only)" with "EA Credit 1 (Option 1 - Whole Building Energy Simulation only)"	11/1/2011
623	Glossary	n/a	n/a	In alphabetical order, add the following definition for **ancillary learning spaces**, "Ancillary learning spaces are spaces where good communication is important to a student's educational progress but for which the primary educational functions are informal learning, social interaction or similar activity other than formal instruction. These areas include, but are not limited to, corridors, cafeterias, gymnasia, and indoor swimming pools."	11/1/2011
623	Glossary	n/a	n/a	In alphabetical order, add the term "An **appurtenance** is any built-in, nonstructural portion of a roof system, such as skylights, ventilators, mechanical equipment, partitions, and solar energy panels."	8/1/2011
624	Glossary	n/a	n/a	In alphabetical order, add the following definition for autocontrol faucets, "**Autocontrol faucets** have automatic fixture sensors or metering controls."	4/1/2012
624	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
624	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

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625	Glossary	n/a	n/a	Revise the text for "Building footprint" to be "**Building footprint** is the area on a project site used by the building structure, defined by the perimeter of the building plan. Parking lots, parking garages, landscapes, and other nonbuilding facilities are not included in the building footprint."	8/1/2011
627	Glossary	n/a	n/a	Revise the definition for **core learning spaces** to be, "Core learning spaces are spaces for educational activities where the primary functions are teaching and learning and where good speech communication is critical to a student's academic achievement. These spaces include, but are not limited to, classrooms, enclosed or open plan), instructional pods or activity areas, group instruction rooms, conference rooms, libraries, offices, speech clinics, offices used for educational purposes and music rooms for instruction, practice and performance."	11/1/2011
627	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
628	Glossary	n/a	n/a	In alphabetical order, insert the term "**emergency lighting**" with the text "Emergency lighting as defined by the Illuminating Engineering Society of North America is lighting designed to supply illumination essential to the safety of life and property in the event of failure of the normal supply."	5/9/2011
629	Glossary	n/a	n/a	Insert the term "Extraction, harvest or recovery point" in alphabetical order with the accompanying text "**Extraction, harvest or recovery point** refers to the location of raw materials prior to manufacturing of the building material or product that is furnished and installed in the project building."	7/19/2010
631	Glossary, 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
631	Glossary	n/a	n/a	In alphabetical order, add the term "**Gross floor area** (based on ASHRAE definition) is the sum of the floor areas of the spaces within the building, including bas ements, mezzanine and intermediate-floored tiers, and penthouses wi th headroom height of 7.5 ft (2.2 meters) or greater. Measurements m ust be taken from the exterior 39 faces of exterior walls OR from the c enterline of walls separating buildings, OR (for LEED CI certifying spa ces) from the centerline of walls separating spaces. Excludes non-en closed (or non-enclosable) roofed-over areas such as exterior covere d walkways, porches, terraces or steps, roof overhangs, and similar f eatures. Excludes air shafts, pipe trenches, and chimneys. Excludes f	8/1/2011

Page	Location	Credit	Credit Title	Issue	Post Date
				loor area dedicated to the parking and circulation of motor vehicles. (Note that while excluded features may not be part of the gross floor area, and therefore technically not a part of the LEED project building, they may still be required to be a part of the overall LEED project and subject to MPRs, prerequisites, and credits.)	
631	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
632	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
633	Glossary, Landscape area	n/a	n/a	Replace the term description with the text "The **landscape area** of the site is the total site area less the building footprint, paved surfaces, water bodies, areas being left in a natural state, and patios."	7/19/2010
635	Glossary	n/a	n/a	In alphabetical order, insert the term "**movable furniture and partitions**" with the text "Movable furniture and partitions are those that can be moved to provide access to the view by the user without the need for tools or assistance from special trades and facilities management."	5/9/2011
635	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
635	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
635	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
635	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
636	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	11/1/2011

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				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."	
636	Glossary	n/a	n/a	In alphabetical order, insert the term "**once-through (single-pass) cooling system**" with the text "A once-through (single pass) cooling system is one which water from any source is used to transfer heat from equipment or processes and then discharged.	5/9/2011
637	Glossary, Preconsumer recycled content	n/a	n/a	In the fourth line of the term description, make the "E" of "Excluded" not bold	11/3/2010
634	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
637	Glossary	n/a	n/a	Insert the term "Predevelopment" in alphabetical order with the accompanying text "**Predevelopment** refers to before the LEED project was initiated, but not necessarily before any development or disturbance took place. Predevelopment conditions describe conditions on the date the developer acquired rights to a majority of the buildable land on the project site through purchase or option to purchase."	4/14/2010
638	Glossary	n/a	n/a	Replace the definition of "**Previously developed sites**" with "Previously developed sites are those altered by paving, construction, and/or land use that would typically have required regulatory permitting to have been initiated (alterations may exist now or in the past). Previously developed land includes a platted lot on which a building was constructed if the lot is no more than 1 acre; previous development on lots larger than 1 acre is defined as the development footprint and land alterations associated with the footprint. Land that is not previously developed and altered landscapes resulting from current or historical clearing or filling, agricultural or forestry use, or preserved natural area use are considered undeveloped land. The date of previous development permit issuance constitutes the date of previous development, but permit issuance in itself does not constitute previous development."	11/1/2011
638	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.	12/2/2009

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				Public or public use applies to all buildings, structures, or uses that are not defined as private or private use.	
639	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
639	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
640	Glossary	n/a	n/a	Insert the term "Sealers" in alphabetical order with the accompanying text "**Sealers** are coatings applied to either block materials from penetrating into or leaching out of a substrate, to prevent subsequent coatings from being absorbed by the substrate, or to prevent harm to subsequent coatings by materials in the substrate."	1/8/2010
644	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 and reference guide changes. The purpose of these rating system changes within the rating system portions of the *LEED Reference Guide for Green Building Design and Construction* is to align with the following LEED Rating Systems that comprise the guide:

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

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