



# AMITY UNIVERSITY HARYANA

Haryana, India

HAS FULFILLED THE REQUIREMENTS OF THE LEED GREEN BUILDING RATING SYSTEM CERTIFICATION ESTABLISHED BY THE U.S. GREEN BUILDING COUNCIL AND VERIFIED BY GREEN BUSINESS CERTIFICATION INC.

# PLATINUM

June 2017

*Mahesh Ramanujam*

MAHESH RAMANUJAM, PRESIDENT & CEO, U.S. GREEN BUILDING COUNCIL,  
PRESIDENT & CEO, GREEN BUSINESS CERTIFICATION INC.



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*Mhmk*  
Registrar  
Amity University Haryana  
122413



# LEED Certification Review Report

This report contains the results of the technical review of an application for LEED® certification submitted for the specified project. LEED certification is an official recognition that a project complies with the requirements prescribed within the LEED rating systems as created and maintained by the U.S. Green Building Council® (USGBC®). The LEED certification program is administered by the Green Business Certification Inc. (GBCI®).

## Amity University Haryana

Project ID 1000075831  
Rating system & version LEED-EB:OM v2009  
Project registration date 08/26/2016

### O and M Application Decision

CERTIFIED: 40-49, SILVER: 50-59, GOLD: 60-79,  
PLATINUM: 80+

## LEED-EB:OM V2009

ATTEMPTED: 83, DENIED: 2, PENDING: 0, AWARDED: 81 OF 110 POINTS

SUSTAINABLE SITES		21 OF 26
SSc1	LEED Certified Design and Construction	0/4
SSc2	Building Exterior and Hardscape Mgmt Plan	1/1
SSc3	Integrated Pest Mgmt, Erosion Control, and Landscape M	0/1
SSc4	Alternative Commuting Transportation	15/15
SSc5	Site Development-Protect or Restore Open Habitat	1/1
SSc6	Stormwater Quantity Control	1/1
SSc7.1	Heat Island Reduction-Non-Roof	1/1
SSc7.2	Heat Island Reduction-Roof	1/1
SSc8	Light Pollution Reduction	1/1

WATER EFFICIENCY		10 OF 14
WEp1	Minimum Indoor Plumbing Fixture and Fitting Efficiency	Y
WEc1	Water Performance Measurement	0/2
WEc2	Additional Indoor Plumbing Fixture and Fitting Efficiency	5/5
WEc3	Water Efficient Landscaping	5/5
WEc4.1	Cooling Tower Water Mgmt-Chemical Mgmt	0/1
WEc4.2	Cooling Tower Water Mgmt-Non-Potable Water Source Use	0/1

ENERGY AND ATMOSPHERE		22 OF 35
EAp1	Energy Efficiency Best Mgmt Practices-Planning, Docume	Y
EAp2	Minimum Energy Efficiency Performance	Y
EAp3	Fundamental Refrigerant Mgmt	Y
EAc1	Optimize Energy Efficiency Performance	18/18
EAc2.1	Existing Building Commissioning-Investigation and Analysis	2/2
EAc2.2	Existing Building Commissioning-Implementation	0/2
EAc2.3	Existing Building Commissioning-Ongoing Commissioning	0/2
EAc3.1	Performance Measurement-Building Automation System	0/1
EAc3.2	Performance Measurement-System-Level Metering	0/2
EAc4	On-Site and Off-Site Renewable Energy	0/6
EAc5	Enhanced Refrigerant Mgmt	1/1
EAc6	Emissions Reduction Reporting	1/1

MATERIALS AND RESOURCES		10 OF 10
MRp1	Sustainable Purchasing Policy	Y
MRp2	Solid Waste Mgmt Policy	Y
MRC1	Sustainable Purchasing-Ongoing Consumables	1/1
MRC2.1	Sustainable Purchasing-Electric-Powered Equipment	1/1
MRC2.2	Sustainable Purchasing-Furniture	1/1
MRC3	Sustainable Purchasing-Facility Alterations and Additions	1/1
MRC4	Sustainable Purchasing-Reduced Mercury in Lamps	1/1
MRC5	Sustainable Purchasing-Food	1/1
MRC6	Solid Waste Mgmt-Waste Stream Audit	1/1

MATERIALS AND RESOURCES		CONTINUED
MRC7	Solid Waste Mgmt-Ongoing Consumables	1/1
MRC8	Solid Waste Mgmt-Durable Goods	1/1
MRC9	Solid Waste Mgmt-Facility Alterations and Additions	1/1

INDOOR ENVIRONMENTAL QUALITY		9 OF 15
IEQp1	Minimum IAQ Performance	Y
IEQp2	Environmental Tobacco Smoke (ETS) Control	Y
IEQp3	Green Cleaning Policy	Y
IEQc1.1	IAQ Best Mgmt Practices-Indoor Air Qual	1/1
IEQc1.2	IAQ Best Mgmt Practices-Outdoor Air Del	0/1
IEQc1.3	IAQ Best Mgmt Practices-Increased Venti	0/1
IEQc1.4	IAQ Best Mgmt Practices-Reduce Particul	0/1
IEQc1.5	IAQ Best Mgmt Practices-IAQ Mgmt for Facility Al	1/1
IEQc2.1	Occupant Comfort-Occupant Survey	1/1
IEQc2.2	Controllability of Systems-Lighting	0/1
IEQc2.3	Occupant Comfort-Thermal Comfort Monitoring	0/1
IEQc2.4	Daylight and Views	1/1
IEQc3.1	Green Cleaning-High Performance Cleaning Program	1/1
IEQc3.2	Green Cleaning-Custodial Effectiveness Assessment	1/1
IEQc3.3	Green Cleaning-Purchase of Sustainable Cleaning Products and	1/1
IEQc3.4	Green Cleaning-Sustainable Cleaning Equipment	1/1
IEQc3.5	Green Cleaning-Indoor Chemical and Pollutant Source Control	0/1
IEQc3.6	Green Cleaning-Indoor Integrated Pest Mgmt	1/1

INNOVATION IN OPERATIONS		5 OF 6
IOc1.1	Innovation in Operations	1/1
IOc1.2	Innovation in Operations	1/1
IOc1.3	Green Education	1/1
IOc1.4	Innovation in Operations	1/1
IOc2	LEED® Accredited Professional	1/1
IOc3	Documenting Sustainable Building Cost Impacts	0/1

REGIONAL PRIORITY CREDITS		4 OF 4
SSc7.2	Heat Island Reduction-Roof	1/1
WEc2	Additional Indoor Plumbing Fixture and Fitting Efficiency	1/1
MRC7	Solid Waste Mgmt-Ongoing Consumables	1/1
MRC8	Solid Waste Mgmt-Durable Goods	1/1

**TOTAL** 81 OF 110

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## CREDIT DETAILS



### Project Information Forms

#### **P1f1: Minimum Program Requirements** **Approved**

02/27/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that the project complies with all Minimum Program Requirements.

#### **P1f2: Project Summary Details** **Approved**

02/27/2017 STANDARD PRELIMINARY REVIEW

The LEED Form has been provided. The project has a total gross floor area of 484,364 square feet. The total land area within the LEED project boundary is 599,604 square feet.

#### **P1f3: Occupant and Usage Data** **Approved**

05/22/2017 STANDARD FINAL REVIEW

The additional documentation demonstrates compliance.

03/16/2017 STANDARD PRELIMINARY REVIEW

The LEED Form has been provided. The project consists primarily of educational spaces. The project was fully occupied throughout the performance period and the twelve months leading up to the application. The project has an average of 6,184 FTE occupants and an average of 0 transient occupants.

However, to demonstrate compliance, the following must be addressed.

##### TECHNICAL ADVICE

1. The Space Usage Calculator has not been provided. Complete and provide the calculator (available at <http://www.usgbc.org/node/10215357?view=resources&return=/credits/existing-buildings/v2009/project-information>) or similar documentation detailing the space usage types in the project building.
2. The occupancy of the project building is unclear. The LEED Form states that the project has not been fully occupied during the performance period or the 12 months leading up to the application. However, the Minimum occupancy table indicates that the building's average occupancy is 100%. Provide a narrative detailing the occupancy rate during the performance period and the 12 months leading up to the application and revise the LEED Form as necessary.
3. Visitors have been included in the Full-time Equivalent table. Visitors must not be included in this table, as they are not regular building occupants. The peak and average visitors must be listed as Peak Transient (visitors) and Daily Average Transients (visitors) as requested below the Full-time equivalent table. Revise the LEED Form to include the number of peak visitors and average daily visitors as requested below the Full-time equivalent table.

#### **P1f4: Schedule and Overview Documents** **Approved**

05/22/2017 STANDARD FINAL REVIEW

The additional documentation demonstrates compliance.

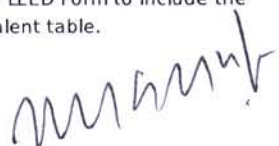
03/16/2017 STANDARD PRELIMINARY REVIEW

The LEED Form has been provided. The Performance Periods Table indicates that the performance period is from November 1, 2015 to November 20, 2016.

However, to demonstrate compliance, the following must be addressed.

##### TECHNICAL ADVICE

1. The building interior photographs have not been provided. Provide representative photos of the interior of the project building.
2. The project narrative does not include a description of substantial challenges. Revise the second form narrative to include a description of at least three aspects that highlight the project team's effort to create a sustainable project as well as examples of substantial challenges.

  
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Note the following:

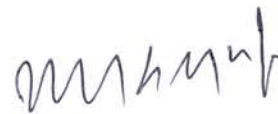
I. The following steps are recommended as part of preparing clarifications for the Final Review and re-submitting in LEED Online:

- Provide a narrative response to each item of technical advice throughout the review to explain how it has been addressed
- Label any new supporting document file names appropriately (e.g., "CLARIFICATION", "FINAL REVIEW", etc.)
- Highlight or circle specific items in the documentation that need to be brought to the LEED reviewer's attention
- In general, the additional documentation submitted for the Final Review should be limited to the items requested in the technical advice and the Credit Forms in order to facilitate review.

**PIf5: Previously LEED Certified Details**                      **Approved**

02/14/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that no portion of the project has ever been LEED certified.



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## Sustainable Sites

SSc1: LEED Certified Design and Construction  
POSSIBLE POINTS: 1

NOT Attempted

### SSc2: Building Exterior and Hardscape Management Plan

**Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

05/23/2017 STANDARD FINAL REVIEW

The additional documentation demonstrates compliance.

03/20/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that a Building Exterior and Hardscape Management Plan has been implemented.

However, to demonstrate compliance, the following must be addressed.

#### TECHNICAL ADVICE

1. Percentage goals for maintenance equipment are provided for individual pieces of equipment or activities, in different sections of the plan. The plan must provide an overall goal for the use of sustainable maintenance. Revise the plan to state a percentage goal for the combined use of all powered and manual maintenance equipment, no matter how used on the site. Additionally, revise the plan to include a statement that all powered and manual maintenance equipment must meet the requirements provided in the maintenance equipment section, and that all powered and manual maintenance equipment use must be tracked together.

2. The performance measurement method stated in the plan for maintenance equipment appears to be the percentage of applicable pieces of equipment or the frequency of use, but this performance metric does not adequately measure how often environmentally non-preferable equipment is used versus environmentally preferable equipment. Provide a revised plan that includes a performance measurement method for maintenance equipment that describes how actual outcomes and sustainability performance for maintenance equipment practices will be measured and tracked over time. The performance measurement method must be able to quantify how the maintenance equipment is used rather than examine the pieces of equipment in the overall inventory. An acceptable performance metric is the number of hours that each piece of environmentally preferable maintenance equipment and non-preferable equipment is used during the performance period.

3. The Maintenance Equipment (Section A) states that lower-emissions and lower-noise equipment will be used, but does not define those terms. To be used as sustainability criteria, noise and emissions limits must be defined. Provide a revised plan that defines noise limits by a decibel limit and defines emissions limits according to a standard such as the California Air Resources Board (CARB) that has more stringent requirements than conventional (e.g., U.S. federal) standards.

4. Although the performance period for this credit is August 1, 2016 to October 20, 2016, performance checklists have been provided only for September and October 2016. Provide logs for November 2016 to document 20% compliance during the three-month minimum performance period.

Note the following:

I. The Performance Record Checklist does not track maintenance equipment by hours of use. Because it is clear that environmentally preferable equipment was used at least 20% of the time during the performance period, compliance is not affected. For future submittals, track maintenance equipment by hours of use and provide an overall percent usage of environmentally preferable equipment, based on hours of use, for all maintenance equipment and manual methods.

II. The policy (page 8 and 9) refers to IEQc3.4-3.6 (cleaning products and materials). For future submittals, revise the plan to use the credit designations consistent with the version of LEED O+M being pursued (for LEED-EB O+M v2009, cleaning product criteria are established in IEQc3.3).

III. For future submittals, note that only manual practices that replace activities that would otherwise require powered equipment may count towards compliance for maintenance equipment. For example, manual pruning (which could be done with a powered trimmer) can be counted as compliant, while manual weeding (which does not replace use of powered equipment) cannot.

### SSc3: Integrated Pest Management, Erosion Control, and Landscape Management Plan

**Denied**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 1, PENDING: 0, AWARDED: 0

05/25/2017 STANDARD FINAL REVIEW

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Additional documentation has been provided.

However, it does not demonstrate compliance because pyrethrum was used during the performance period without universal notification. Although it is derived from a natural source, pyrethrum is not least toxic according to the definition provided in the Implementation Section of IEQc3.6 in the LEED-EB O+M v2009 Reference Guide. Additionally, it appears that the area was fogged with pyrethrum as a preventive measure. Integrated pest management practices allow for the use of chemicals only after all non-chemical methods have been exhausted, and not as a preventive measure.

For future submittals, ensure that universal notification is given when any non-least-toxic pesticides are used. Provide the date that universal notification was issued and provide a narrative description of non-chemical or least toxic measures that were taken prior to resorting to non-least-toxic chemicals.

Note the following:

1. The plan includes a link to the Pesticide Research Institute's 9/13/2013 update to the San Francisco Pesticide Hazard Screening List, but this document is no longer available at the SF Environment website (<http://sfenvironment.org/article/residents/leasttoxic-pesticides-for-green-buildings>). The website now indicates that for up-to-date and immediate San Francisco Hazard Review Process evaluation results, the Pesticide Research Institute's PestSmart tool (<http://pesticideresearch.com/site/pestsmart/>) or Pesticide Product Evaluator tool (<https://pesticideresearch.com/site/evaluator/>, subscription-based) may be used. For future submittals, revise the plan to omit references to the San Francisco Hazard Screening List. Ensure that the plan indicates that least toxic and non-least toxic pesticides are evaluated according to the San Francisco Hazard Review Process. If desired, the plan may indicate that the Pesticide Research Institute's tools are used to provide immediate San Francisco Hazard Review Process evaluation results for pesticides in the tools' database.

### 03/17/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that an Integrated Pest Management, Erosion Control, and Landscape Management Plan has been implemented on the project site.

However, to demonstrate compliance, the following must be addressed.

#### TECHNICAL ADVICE

1. The outdoor Integrated Pest Management plan has not been provided. Provide a copy of the outdoor IPM plan. A sample plan template is available from the Resources tab of this credit in the LEED Credit Library (<http://www.usgbc.org/resources/ssc3-ipm-erosion-control-and-landscape-management-plan-template>) and may be helpful as a reference in addressing the technical advice above. If using this template for the Final Review, ensure that it is tailored as appropriate to reflect the circumstances of operations in the project building. The plan must include the following:

a. A statement that the IPM will be implemented 100% of the time.

b. A description of integrated pest control methods as the first step in eliminating pests. The plan must utilize integrated methods, site or pest inspections, pest population monitoring, evaluation of the need for pest control and one or more pest control methods, including sanitation, structural repairs, mechanical, and living biological controls, and other nonchemical methods as the first step in eliminating pests.

c. A definition of least toxic pesticide that evaluates least toxic and non-least toxic pesticides according to the San Francisco Hazard Review Process as is consistent with the definition outlined in the Implementation section of IEQc3.6 in the LEED-EB O+M v2009 Reference Guide. Per the Implementation section of IEQc3.6 Green Cleaning - Integrated Pest Management in the LEED-EB O+M v2009 Reference Guide, a least toxic chemical pesticide is any pesticide product for which all active ingredients and known inert ingredients meet the least toxic Tier III hazard criteria under the San Francisco Hazard Review Process. The official San Francisco Hazard Review Process is available at <http://www.sfenvironment.org/article/residents/leasttoxic-pesticides-for-green-buildings>. Least toxic also applies to any pesticide product, other than rodent bait, that is applied in a self-contained, enclosed bait station placed in an inaccessible location. The Pesticide Research Institute's PestSmart tool (<http://pesticideresearch.com/site/pestsmart/>) or Pesticide Product Evaluator tool (<https://pesticideresearch.com/site/evaluator/>, subscription-based) may also be referenced in the plan to provide immediate San Francisco Hazard Review Process evaluation results for pesticides in the tools' database.

d. A description of the types of rodent baits permitted for use at the project building. According to the Implementation section of IEQc3.6 in the LEED-EB O+M v2009 Reference Guide, rodent baits shall only be used if they are solid blocks placed in locked outdoor dispensers. No second-generation (single-feed) rodent baits may be used if the building is adjacent to parkland, wild areas, or other spaces where wildlife may be unintentionally affected. In addition, rodent baits are not considered least toxic under any circumstances.

e. A statement that clearly defines what constitutes an emergency circumstance under which an emergency application of pesticides can be conducted.

f. A universal notification system to notify building occupants of the application of a non-least toxic pesticide. These universal notification procedures should require notice of not less than 72 hours before application (under normal conditions) and 24 hours after application (in emergency conditions) of a pesticide other than a least-toxic pesticide. Refer to the Implementation section of IEQc3.6 in the LEED-EB O+M v2009 Reference Guide for the definition of a least toxic pesticide.

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2. Although the plan does establish a percentage goal for the use of organic fertilizer, a performance measurement metric has not been included. Provide a revised plan that includes a performance metric for fertilizer. For example, the plan could specify that assessing the percentage of organic fertilizers used will be measured by weight, volume, or cost.

3. The summary of how each operational element was implemented in an environmentally sensitive manner during the performance period has not been provided in the LEED Form narrative. The plan does not fulfill the requirement for this summary. Provide a revised form that summarizes how each operational element (IPM, erosion and sedimentation control, organic fertilizer use, and landscape waste diversion) was implemented in an environmentally sensitive manner during the performance period. Alternatively, provide tracking logs for each operation element. Consider the entire performance period, August 1, 2016 to November 20, 2016, in the summary.

#### **SSc4: Alternative Commuting Transportation**

**Awarded: 15**

POSSIBLE POINTS: 15

ATTEMPTED: 15, DENIED: 0, PENDING: 0, AWARDED: 15

##### **05/25/2017 STANDARD FINAL REVIEW**

The additional documentation demonstrates compliance.

##### **03/18/2017 STANDARD PRELIMINARY REVIEW**

The LEED Form states that the project has achieved an 86.73% reduction in conventional commuting trips using an informal commute reduction tracking program in accordance with SCAQMD procedures.

However, to demonstrate compliance, the following must be addressed.

##### **TECHNICAL ADVICE**

1. It is not clear that the distribution of surveys was random. Provide a narrative explaining how the survey recipients were chosen and demonstrating that they were selected at random. As necessary, investigate alternative methods to collect vehicle ridership data that are in accordance with SCAQMD and provide revised survey results that are obtained using the methodology described in the Calculations section of SSc4 in the LEED-EB O+M v2009 Reference Guide.

2. As noted in Pif3, visitors have been included in the FTE calculation. Because they are not regular building occupants, visitors must not be included in the survey. Provide a revised calculator that states the number of regular building occupants. If necessary, remove any responses from visitors from the survey data.

#### **SSc5: Site Development-Protect or Restore Open Habitat**

**Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

##### **05/31/2017 STANDARD FINAL REVIEW**

The additional documentation demonstrates that the project has in place onsite native or adapted vegetation and maintains an offsite area of native or adapted vegetation which together are equivalent to 32.5% of the project site area.

Note the following:

1. The owner declaration concerning the off-site native area does not confirm that this area will contribute only to LEED certification for the project building and will not be used toward certification of any other project. For future submittals, provide a revised declaration that confirms that the offsite native area will contribute only to the project building's LEED certification.

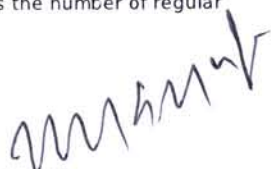
##### **03/21/2017 STANDARD PRELIMINARY REVIEW**

The LEED Form states that the project has in place onsite native or adapted vegetation covering 33% of the site area.

However, to demonstrate compliance, the following must be addressed.

##### **TECHNICAL ADVICE**

1. It is unclear whether the vegetated areas meet the requirements of the credit. The natural area must include native or adapted species. The natural areas must require minimal care (e.g. minimal mowing, weeding, fertilization, watering, or pest control) from humans. It appears that many of plant species are food crops, but crops that are harvested seasonally do not meet this requirement. Additionally, monoculture plantings (e.g., turf) cannot be included as compliant even if they meet the definition of native or adapted. Further, the area of tree canopies cannot be included in the credit calculations unless the species at ground level are native or adapted, and are not a monoculture. Provide additional documentation that the natural areas meet the requirements of the credit. Provide a

  
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revised site plan that shows the boundaries of different natural areas. Give a description of each area that includes the native or adapted species present, and demonstrate that the area meets the requirements of a natural area. Provide photos of the natural areas.

**SSc6: Stormwater Quantity Control**

**Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

05/23/2017 STANDARD FINAL REVIEW

The additional documentation demonstrates that at least 27.92% of rainfall is mitigated for both an average weather year and for the two-year 24-hour design storm.

03/18/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that 27.92% of rainfall is mitigated for both an average weather year and for the two-year, 24-hour design storm.

However, to demonstrate compliance, the following must be addressed.

TECHNICAL ADVICE

1. The most recent stormwater inspection log has not been provided. Provide the most recent stormwater inspection and a log showing that any needed maintenance or repairs were performed within 60 days of the inspection that uncovered them.
2. It is unclear what is meant by "natural soil". Provide a description of natural soil and explain how the runoff coefficient was determined for this surface type.

**SSc7.1: Heat Island Reduction-Non-Roof**

**Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

05/23/2017 STANDARD FINAL REVIEW

The additional documentation demonstrates that 82.75% of the nonroof surfaces on-site are compliant.

03/18/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that 82.75% of the non-roof impervious surfaces on-site have an SRI of at least 29, are shaded by current and future tree canopy, or are covered by an open-grid pavement system.

However, to demonstrate compliance, the following must be addressed.

TECHNICAL ADVICE

1. The LEED Form narrative has not been completed to describe the maintenance program in place to ensure that SRI surfaces maintain good reflectance over time. Revise the LEED Form to provide a description of the maintenance program. Include information regarding the cleaning procedures and schedule.

**SSc7.2: Heat Island Reduction-Roof**

**Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

02/28/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that 75.64% of the roof area is covered with high-albedo materials, based on a calculated SRI-weighted area.

**SSc8: Light Pollution Reduction**

**Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

06/22/2017 STANDARD FINAL REVIEW

The additional documentation demonstrates compliance.

Note the following.

1. Photometric analyses are not applicable to this compliance path. The documentation must that the light fixtures meet either Exemption 1 (distance exemption) or Exemption 3 (angle exemption). The provided documentation does not directly demonstrate that the light fixtures meet one of the three distance exemption rules outlined in the

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Implementation section of this credit in the LEED O+M v2009 Reference Guide. As the documentation appears to demonstrate that there is no direct line of sight, compliance is not affected.

For future submittals, provide documentation demonstrating that all nonemergency light fixtures either (1) have no direct line of sight to any openings in the building envelope, using one of the three exemptions described in the Implementation section of SSc8 in the LEED-EB O+M v2009 Reference Guide, or (2) are automatically controlled to turn off during all after-hours periods.

#### 03/18/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that the interior and exterior lighting for the project is in accordance with the requirements of this credit.

Interior Lighting: Interior lighting fixtures were configured such that there are no direct lines of sight to any openings in the building envelope.

Exterior Lighting: All exterior fixtures 50 watts and over are partially or fully shielded so that they do not directly emit to the night sky.

However, to demonstrate compliance, the following must be addressed.

#### TECHNICAL ADVICE

1. Documentation has not been provided to support the declaration that there are no direct lines of sight to any openings in the building envelope. Provide photos, lighting design drawings, or other documentation that supports the declaration for no direct lines of sight. It is noted that the SSc8 Light Pollution Reduction Narrative document states that lights are switched off from 8pm to 6am; however, based on the P1f4 MRC Clarification document, it appears that control of interior lighting is manual. Because the interior lighting is manually controlled, it does not appear that the project can achieve this credit via the automatic controls compliance path.

  
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## Water Efficiency

### **WEp1: Minimum Indoor Plumbing Fixture and Fitting Efficiency**

**Awarded**

#### 05/24/2017 STANDARD FINAL REVIEW

The additional documentation demonstrates that the potable water usage for the project has been reduced to 44.11% below the LEED-EBOM baseline.

#### 03/18/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that the potable water usage for the project has been reduced to 37.11% below the LEED-EB O+M Baseline.

However, to demonstrate compliance, the following must be addressed.

#### TECHNICAL ADVICE

1. A complete water efficiency policy has not been provided. Provide a copy of a policy that mandates an economic assessment of conversion to high-performance plumbing fixtures and fittings as part of any future indoor plumbing renovations. Ensure that the policy requires that the economic assessment calculations account for potential water supply, water disposal, and maintenance cost savings.
2. Manufacturer or supplier data verifying the flow rates for each fixture type that differs from UPC/IPC efficiency requirements has not been provided. Provide manufacturer or supplier data verifying the flush and flow rates for each fixture type that differs from UPC/IPC efficiency requirements. If manufacturer or supplier data is unavailable, specify measured water consumption rates for at least a 20% sample (by number of fixtures) of each fixture type in the project building that differs from UPC/IPC requirements.
3. The values in the "Percent of Occupants" column for the flush fixtures have not been completed correctly. These values must represent the percentage of occupants within each gender that have access to each fixture type. Because only one fixture type is present in each family, revise the calculations to set the "Percent of Occupants" values at 100% for each flush fixture (Toilet male, Toilet female and Urinal).
4. It is unclear whether the values in the "Percent of Occupants" column for Public Lavatory Faucet and Kitchen Faucet are correct. If Public lavatory faucets are present in each restroom, as is the standard, the "Percent of Occupants" value must be 100%. The value for the kitchen faucet must be the percent of occupants with access to the kitchen faucets. Revise the calculator by entering the percent of occupants with access to each type of fixture in the "Percent of Occupants" column for the Public Lavatory Faucet the Kitchen Faucet. If the percent of occupants that have access to either fixture type is less than 100%, provide a narrative to explain which building occupants have access to that type of fixture.

**WEc1: Water Performance Measurement**  
POSSIBLE POINTS: 2

**Not  
Attempted**

**WEc2: Additional Indoor Plumbing Fixture and Fitting Efficiency**  
POSSIBLE POINTS: 5

**Awarded: 5**

ATTEMPTED: 5, DENIED: 0, PENDING: 0, AWARDED: 5

  
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#### 05/24/2017 STANDARD FINAL REVIEW

The additional documentation demonstrates that the potable water usage for the project has been reduced to 44.11% below the LEED-EBOM baseline.

#### 03/14/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that the project has achieved a 37.11% reduction in indoor plumbing fixture and fitting potable water use from the LEED-EB O+M Baseline.

However, to demonstrate compliance, the following must be addressed.

#### TECHNICAL ADVICE

1. The achievement of WEp1 is currently pending clarifications. WEp1 must be achieved before WEc2 may be awarded. Address the comments provided for WEp1 and resubmit this credit.

**WEc3: Water Efficient Landscaping**  
POSSIBLE POINTS: 5

**Awarded: 5**

ATTEMPTED: 5, DENIED: 0, PENDING: 0, AWARDED: 5

02/28/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that the project uses only nonpotable or non-natural surface or subsurface water for irrigation.

WEc4.1: Cooling Tower Water  
Management-Chemical Management  
POSSIBLE POINTS: 1

Not  
Attempted

WEc4.2: Cooling Tower Water  
Management-Non-Potable Water Source  
Use  
POSSIBLE POINTS: 1

Not  
Attempted



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## Energy and Atmosphere

### **EAp1: Energy Efficiency Best Management Practices-Planning, Documentation, and Opportunity Assessment**

**Awarded**

#### 05/31/2017 STANDARD FINAL REVIEW

The additional documentation demonstrates compliance.

Note the following:

I. The clarification narrative does not identify a target index that is lower than the current building EUI and quantify the potential cost savings that might be realized by enhancing energy efficiency to achieve that target index. The purpose of the target EUI is to set a goal for future energy savings and to estimate the savings that would be realized by achieving the goal, rather than to document actual savings from measures taken during the performance period. For future submittals, provide an EUI analysis that establishes an EUI target (and the associated cost savings) using a target index that is lower than the current year's EUI.

II. The revised list of potential low-cost/no-cost energy efficiency and conservation upgrades and programmatic changes does not include the estimated annual energy demand savings, total energy cost savings (consumption + demand), and estimated future maintenance cost savings resulting from these improvements. Note that these are estimated savings; it is not required that actual savings be documented during the performance period. For future submittals, provide estimated cost savings from all sources, including demand charge and maintenance savings.

#### 03/16/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that a building operating plan, a sequence of operations, and a preventive maintenance program have been implemented at the project building, and that an ASHRAE Level I Walk-Through Analysis has been conducted during the performance period.

However, to demonstrate compliance, the following must be addressed.

#### TECHNICAL ADVICE

1. The building operating plan does not include design lighting levels throughout the building (in Foot-candles or Lumens). Revise the building operating plan to include, at minimum, an occupancy schedule, equipment run-time schedule, design setpoints for all HVAC equipment, and design lighting levels throughout the building. The Building Operating Plan must identify any changes in schedules for different seasons (i.e. cooling and heating seasons), days of the week (i.e. weekday/weekend schedules), and times of day (i.e. occupied/unoccupied). See the Implementation section of EAp1 in the LEED-EB O+M v2009 Reference Guide, for a sample building operating plan.
2. A summary of findings relating to the generation of the project building site Energy Utilization Index (EUI) has not been provided. Provide a supplement to the EUI analysis that identifies a target index and quantifies the potential cost savings that might be realized by enhancing energy efficiency to achieve the target index. It is noted that the building's current EUI and a comparison with a similar building is provided in EAp2. A target index can be established within the ENERGY STAR Portfolio Manager tool.
3. It appears that several major end use categories, including lighting, plug loads, and ventilation (e.g. fans, etc.), are not included separately in the breakdown. Provide a revised breakdown of total project building annual energy consumption to include all major end uses or applications. The end use breakdown may take the form of a data table or a graphical summary.
4. The list of potential low-cost/no-cost energy efficiency and conservation upgrades and programmatic changes does not include the annual energy consumption savings, energy demand savings, total energy cost savings (consumption + demand), and maintenance cost savings resulting from these improvements. Provide revised documentation containing all potential savings resulting from each potential improvement.

### **EAp2: Minimum Energy Efficiency Performance**

**Awarded**

#### 06/08/2017 STANDARD FINAL REVIEW

The additional documentation demonstrates energy efficiency in the 45th percentile above the national median.

#### 03/21/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that the building is not eligible for an ENERGY STAR score and that the building has demonstrated energy efficiency in the 73rd percentile above the national median.

However, to demonstrate compliance, the following must be addressed.

#### TECHNICAL ADVICE

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1. The form has not been completed to list all energy meters and their ownership that are used to meter total building energy and any sub-meters used for metering isolated loads. Complete the form to identify the energy source and ownership of each energy meter. Address all energy sources used in the building.
2. Provide a minimum of three months of billing statements for all energy sources. Note that for solid or liquid fuels that are billed based on fixed delivery dates, billing invoices (not meters) may be provided for documentation.
3. A Case 2 Calculator, which is available from the EAp2 Resources page under the LEED-EB O+M v2009 Credit Library ([www.usgbc.org/credits/existing-buildings/v2009](http://www.usgbc.org/credits/existing-buildings/v2009)), has not been provided. Provide a Case 2 Calculator documenting the building's energy performance. Confirm that the weather normalized source (not building site) energy use intensity from Portfolio Manager has been input into the Case 2 Calculator. Provide documentation such as a screenshot from Portfolio Manager documenting the source energy use intensity.
4. EAc4 states that the project building uses on-site solar PV renewable energy. On-site solar PV renewable energy has not been included in ENERGY STAR Portfolio Manager. Additionally, it is unclear if any energy generated by the solar array is exported to the grid. It is therefore not clear whether any exported energy generated by the on-site solar array has been incorrectly identified as on-site renewable energy that is consumed on-site. This would not reflect the true energy efficiency of the building. Refer to the ENERGY STAR Portfolio Manager Frequently Asked Questions (<https://portfoliomanager.zendesk.com/hc/en-us/articles/211027608>), which indicate that buildings do not receive credit in the Portfolio Manager calculation of the site energy use intensity for the export of onsite renewable energy to the grid. All energy that is consumed by the project building from the grid must be entered into Portfolio Manager, and any onsite renewable energy that is sold to the grid must be tracked separately as such in Portfolio Manager (see <https://portfoliomanager.zendesk.com/hc/en-us/articles/211027598>). Revise the energy meter data in Portfolio Manager, if necessary, to accurately reflect the total amount of energy generated by the solar array and consumed onsite as well as grid-provided electricity that was consumed by the project building. Select the proper options in Portfolio Manager to designate whether any of the renewable energy is sold or whether it is all consumed onsite, as outlined in the Frequently Asked Questions for Portfolio Manager (<https://portfoliomanager.zendesk.com/hc/en-us/articles/211027598>). Provide three months of meter readings for the on-site solar generation as well as a narrative to demonstrate that this guidance has been applied in the documentation provided.

Note the following.

I. The building occupancy differs between the Data Verification Checklist (6,184 full-time equivalent (FTE) workers + 5,386 students) and PIF3 (6,184 FTEs, including students). As this issue does not affect the weather normalized source EUI determined by Portfolio Manager, compliance is not affected. For future submittals, revise the occupancy input in Portfolio Manager as needed to ensure consistency across credits.

**EAp3: Fundamental Refrigerant Management**

**Awarded**

03/15/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that the project contains no CFC-based refrigerants in base building systems. The Refrigerants table has been completed on the form listing the refrigerant used for each base building system.

**EAc1: Optimize Energy Efficiency Performance**

POSSIBLE POINTS: 18  
ATTEMPTED: 18, DENIED: 0, PENDING: 0, AWARDED: 18

**Awarded:  
18**

06/08/2017 STANDARD FINAL REVIEW

The additional documentation demonstrates energy efficiency in the 45th percentile above the national median.

03/14/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that the building is not eligible for an ENERGY STAR score and that the building has demonstrated energy efficiency in the 73rd percentile above the national median.

However, to demonstrate compliance, the following must be addressed.

**TECHNICAL ADVICE**

1. The achievement of EAp2 Minimum Energy Efficiency Performance is currently pending clarifications. EAp2 must be achieved before EAc1 may be awarded. Address the comments provided for EAp2 and resubmit this credit.

**EAc2.1: Existing Building Commissioning- Investigation and Analysis**

POSSIBLE POINTS: 2  
ATTEMPTED: 2, DENIED: 0, PENDING: 0, AWARDED: 2

**Awarded: 2**

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05/22/2017 STANDARD FINAL REVIEW

The additional documentation demonstrates compliance.

03/16/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that a retrocommissioning plan for the major building energy-using systems has been implemented and the investigation and analysis phase has been conducted during the performance period.

However, to demonstrate compliance, the following must be addressed.

TECHNICAL ADVICE

1. The Ongoing Commissioning Plan document does not include specific equipment and system functional performance test procedures and diagnostic monitoring, as stated in the LEED-EB O+M v2009 Reference Guide. Additionally, the plan does not list information regarding project management tools that allow access to relevant building documents (plans, utility bills, etc.) or a list of members of the commissioning team and their responsibilities, as stated on the LEED Form. Revise the plan to include all required elements.
2. Provide a table or similar documentation listing any operating problems affecting either occupant comfort or building energy use, and proposed or potential operational changes that will solve them.
3. The table of energy efficiency upgrades does not provide all required information. For each capital measure (items that are not low-cost/no-cost), provide the corresponding economic feasibility (payback time, rate of return, or cost/benefit ratio) of each improvement.
4. As noted in EAp1, it appears that several major end use categories, including lighting, plug loads, and ventilation (e.g. fans, etc.), are not included separately in the breakdown. Provide a revised breakdown of total project building annual energy consumption to include all major end uses or applications. The end use breakdown may take the form of a data table or a graphical summary.

EAc2.2: Existing Building Commissioning-  
Implementation  
POSSIBLE POINTS: 2

Not  
Attempted

EAc2.3: Existing Building Commissioning-  
Ongoing Commissioning  
POSSIBLE POINTS: 2

Not  
Attempted

EAc3.1: Performance Measurement-  
Building Automation System  
POSSIBLE POINTS: 1

Not  
Attempted

EAc3.2: Performance Measurement-  
System-Level Metering  
POSSIBLE POINTS: 2

Not  
Attempted

EAc4: On-Site and Off-Site Renewable  
Energy  
POSSIBLE POINTS: 6

Not  
Attempted

**EAc5: Enhanced Refrigerant Management Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

05/22/2017 STANDARD FINAL REVIEW

The additional documentation demonstrates a calculated refrigerant impact of 60 per ton.

03/16/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that the building refrigerant impact has been minimized, with a calculated refrigerant impact of nine (9) per ton, which is less than the maximum allowable value of 100.

However, to demonstrate compliance, the following must be addressed.

TECHNICAL ADVICE

1. The building operating plan provided in EAp1 indicates that there are three chillers, of differing sizes, and it appears that these have been grouped together in the form calculator. Therefore, it is not clear that the refrigerant leakage rate for each piece of equipment has been accounted for correctly. Provide a revised form that lists all refrigerant containing equipment separately in the form calculator. Exception: units having identical characteristics

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(i.e., size, manufacturer, refrigerant charge and pounds per ton) and have zero pounds of refrigerant added may be grouped together. If a piece of equipment has experienced refrigerant leakage during the recertification performance period, it must be listed individually.

**EAc6: Emissions Reduction Reporting**

**Awarded: 1**

POSSIBLE POINTS: 3

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 3

**05/23/2017 STANDARD FINAL REVIEW**

The additional documentation demonstrates compliance.

**03/15/2017 STANDARD PRELIMINARY REVIEW**

The LEED Form states that the project emissions have been reported and that emissions reductions from actions relating to energy efficiency have been quantified.

However, to demonstrate compliance, the following must be addressed.

**TECHNICAL ADVICE**

1. Provide a summary of actions relating to energy efficiency, renewable energy, and other building energy emissions reductions measures, including reductions from the purchase of renewable energy credits, and estimate the relative contribution of each action to greenhouse gas emissions reductions in terms of MtCO<sub>2</sub>e.

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## Materials and Resources

### MRp1: Sustainable Purchasing Policy **Awarded**

03/18/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that a Sustainable Purchasing Policy has been implemented.

Note the following:

1. The policy states that at least 40% of the cost of electric or electronic durable goods purchased will be Energy Star rated products by the Bureau of Energy Efficiency. Note that for purposes of demonstrating compliance with MRc2.1, the Indian BEE Star label has not been accepted by USGBC as an equivalent to the U.S. EPA's ENERGY STAR label.

### MRp2: Solid Waste Management Policy **Awarded**

03/18/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that a Solid Waste Management Policy has been implemented.

### MRc1: Sustainable Purchasing-Ongoing Consumables **Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

05/24/2017 STANDARD FINAL REVIEW

The additional documentation demonstrates that sustainable purchases of ongoing consumables (weighted value) represented 94.82% of total ongoing consumables purchases during the performance period.

03/18/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that sustainable purchases of ongoing consumables (weighted value) represent 94.82% of total ongoing consumables purchases during the performance period.

However, to demonstrate compliance, the following must be addressed.

#### TECHNICAL ADVICE

1. All purchases are dated November 16, 2016. It is unclear that all ongoing consumables purchased during the performance period are included in the calculator. Provide a revised calculator that includes all ongoing consumables or provide a narrative explaining that all purchases made during the performance period have been included in the calculator.

2. It is unclear that all products identified as regional materials satisfy credit criteria. To qualify as a regional material, the product must be harvested and processed or extracted and processed within 500 miles (800 kilometers) from the project location. The documentation provided appears to address only the location of manufacture (processing) of the product. Provide additional documentation to demonstrate that the raw materials used in the products were harvested or extracted within 500 miles (800 kilometers) of the project location.

### MRc2.1: Sustainable Purchasing Electric-Powered Equipment **Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

05/23/2017 STANDARD FINAL REVIEW

The additional documentation demonstrates that sustainable purchases of electric durable goods (weighted value) represented 49.28% of total electric durable goods purchases during the performance period.

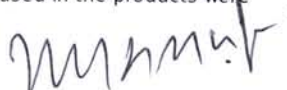
03/18/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that sustainable purchases of electric durable goods (weighted value) represent 100% of total electric durable goods purchases during the performance period.

However, to demonstrate compliance, the following must be addressed.

#### TECHNICAL ADVICE

1. It is unclear that the Ricoh projector is ENERGY STAR labeled. The documentation for the Ricoh Projector does not include ENERGY STAR verification and independent online research could not verify its ENERGY STAR label. Provide

  
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documentation from product manufacturers or suppliers that verifies that the equipment is ENERGY STAR labeled. Alternatively, revise the form to remove the ENERGY STAR designation.

**MRC2.2: Sustainable Purchasing-Furniture** **Awarded: 1**

POSSIBLE POINTS: 1  
ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**05/23/2017 STANDARD FINAL REVIEW**

The additional documentation demonstrates that sustainable purchases of furniture (weighted value) represented 100% of total furniture purchases during the performance period.

**03/18/2017 STANDARD PRELIMINARY REVIEW**

The LEED Form states that sustainable purchases of furniture (weighted value) represent 100% of total furniture purchases during the performance period.

However, to demonstrate compliance, the following must be addressed.

**TECHNICAL ADVICE**

1. It is unclear that all products identified as regional materials satisfy credit criteria. To qualify as a regional material, the product must be harvested and processed or extracted and processed within 500 miles (800 kilometers) from the project location. The documentation provided appears to address only the location of manufacture (processing) of the product. Provide additional documentation to demonstrate that the raw materials used in the products were harvested or extracted within 500 miles (800 kilometers) of the project location.

**MRC3: Sustainable Purchasing-Facility Alterations and Additions** **Awarded: 1**

POSSIBLE POINTS: 1  
ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**05/24/2017 STANDARD FINAL REVIEW**

The additional documentation demonstrates that 84.28% of total materials purchased for facility alterations and additions during the performance period was sustainable.

**03/18/2017 STANDARD PRELIMINARY REVIEW**

The LEED Form states that the project maintained a sustainable purchasing program over the performance period covering materials for facility alterations and additions and that 94.55% of total purchases were sustainable.

However, to demonstrate compliance, the following must be addressed.

**TECHNICAL ADVICE**

1. It is unclear whether the facility alterations/additions meet the minimum requirements for inclusion in LEED-EB O+M. Page xxiii of the LEED-EB O+M v2009 Reference Guide states that for alterations to be included, they must include construction activity by more than one trade specialty, make substantial changes to at least one entire room in the building, and require isolation of the work site from regular building occupants for the duration of construction. For additions, those that increase the total building floor area by at least 5% may be included. Provide a narrative describing the facility alterations and additions that were experienced during the performance period and demonstrate that they meet the criteria defined in the Reference Guide. Provide a revised form if necessary. Only include materials from qualifying alterations and additions. Painting alone does not constitute substantial construction activity to a room.

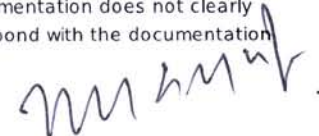
2. It is unclear whether the documentation requirement has not been met. The documentation does not clearly correspond with the products listed in the calculator. Revise the calculator to correspond with the documentation provided.

**MRC4: Sustainable Purchasing-Reduced Mercury in Lamps** **Awarded: 1**

POSSIBLE POINTS: 1  
ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**02/28/2017 STANDARD PRELIMINARY REVIEW**

The LEED Form states that the project has a compliant lighting purchasing plan in place and that the lamps purchased during the performance period have an average mercury performance level of 0 picograms per lumen-hour.

  
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**MRc5: Sustainable Purchasing-Food****Awarded: 1**POSSIBLE POINTS: 1  
ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

## 05/24/2017 STANDARD FINAL REVIEW

The additional documentation demonstrates that 100% of combined food and beverage purchases during the performance period met the sustainability criteria for this credit.

## 03/18/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that 100% of the total combined food and beverage purchases during the performance period met the sustainability criteria for this credit.

However, to demonstrate compliance, the following must be addressed.

## TECHNICAL ADVICE

1. It is not clear that all food purchases have been included in the LEED Form table. No purchases were made in August or September. Provide a narrative explaining that the table includes all food purchases made during the performance period. Alternatively, revise the table to include all food purchases during the performance period.
2. The documentation requirement has not been met. The documentation provided does not clearly correlate to the items on the calculator. Provide documentation for at least 20% of the products listed on the calculator to demonstrate that they were produced or harvested within 100 miles (160 kilometers) of the project building.

**MRc6: Solid Waste Management-Waste Stream Audit****Awarded: 1**POSSIBLE POINTS: 1  
ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

## 05/26/2017 STANDARD FINAL REVIEW

The additional documentation demonstrates compliance.

Note the following:

1. The LEED Form table has not been completed correctly, as the waste that was not diverted has not been included on the table. Because the non-diverted waste was reported in the waste audit report, compliance is not affected. For future submittals, ensure that all non-diverted waste is recorded on the LEED Form table as landfill-bound waste, of which 0 kg are diverted.

## 03/19/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that an audit of the entire ongoing waste stream of the building and grounds has been performed during the performance period.

However, to demonstrate compliance, the following must be addressed.

## TECHNICAL ADVICE

1. A waste stream audit report has not been provided. Provide a waste stream audit report that includes a description of the sample of waste audited, the timing of the audit, a description of the audit procedure, and a rationale demonstrating that the audit sample is representative of the building's typical waste stream.
2. The LEED Form table shows that all waste was recycled and none went to a landfill, which is atypical for a project of this size. Revise the table to include waste going to the landfill (not diverted) or provide a narrative confirming that no waste went to a landfill. Note that the audit must separately sort and measure each recyclable material type in the recycling stream and in the general waste stream. If this has not been done, perform and document a new waste audit using the methodology described under MRc6 in the Reference Guide. Note also that any recyclable materials found in the general waste stream should not be included in the waste diverted column in the form. The results documented in the table must reflect the destination of the recyclables before the audit and should not reflect any additional diversion resulting from the audit.

**MRc7: Solid Waste Management-Ongoing Consumables****Awarded: 1**POSSIBLE POINTS: 1  
ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

## 05/25/2017 STANDARD FINAL REVIEW

The additional documentation demonstrates that the project diverted 79.37% of the ongoing consumable waste stream during the performance period.

  
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03/19/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that the project diverted 100% of the ongoing consumable waste stream during the performance period.

However, to demonstrate compliance, the following must be addressed.

TECHNICAL ADVICE

1. The LEED Form table does not include the general waste stream (waste that was not diverted but was sent to be landfilled or incinerated). Revise the table to include the general waste stream that was not diverted. Ensure that waste for the entire performance period, August 1, 2016 to November 20, 2016, is included.

**MRC8: Solid Waste Management-Durable Goods**      **Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

03/19/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that the project has diverted 84.78% of the durable goods waste stream during the performance period.

Note the following:

1. Although the LEED Form states that the metric used to measure compliance is the replacement cost of the diverted goods, it appears that they are recorded on the LEED Form table by number of items rather than units of currency. For future submittals, report durable goods waste in terms of a unit of weight, volume, or replacement cost.

**MRC9: Solid Waste Management-Facility Alterations and Additions**      **Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

05/25/2017 STANDARD FINAL REVIEW

The additional documentation demonstrates that the project diverted 94.3% of the waste generated by facility alterations and additions during the performance period.

03/14/2017 STANDARD PRELIMINARY REVIEW

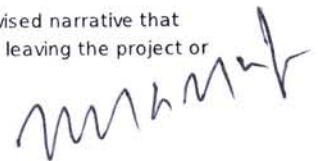
The LEED Form states that the project diverted 95.45% of waste generated by facility alterations and additions during the performance period.

However, to demonstrate compliance, the following must be addressed.

TECHNICAL ADVICE

1. It is unclear whether the facility alterations/additions meet the minimum requirements for inclusion in LEED-EB O+M. Page xxiii of the LEED-EB O+M v2009 Reference Guide states that for alterations to be included, they must include construction activity by more than one trade specialty, make substantial changes to at least one entire room in the building, and require isolation of the work site from regular building occupants for the duration of construction. For additions, those that increase the total building floor area by at least 5% may be included. Provide a narrative describing the facility alterations and additions that were experienced during the performance period and demonstrate that they meet the criteria defined in the Reference Guide. Provide a revised form if necessary. Only include materials from qualifying alterations and additions. Painting alone does not constitute substantial construction activity to a room.

2. The second LEED Form narrative does not provide the information requested. Provide a revised narrative that describes the quality control program in place to ensure that base building elements are not leaving the project or associated grounds in uncontrolled or unmonitored channels of the waste stream.



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## Indoor Environmental Quality

### IEQp1: Minimum Indoor Air Quality Performance

**Awarded**

05/26/2017 STANDARD FINAL REVIEW

The additional documentation demonstrates compliance.

Note the following:

1. Periodic system maintenance status report or maintenance logs written during the performance period have not been provided. Instead, the preventive maintenance checklist provided in EAp1 has been referenced. The scheduling of periodic maintenance of the ventilation system components during the performance period does not demonstrate that planned or scheduled preventive maintenance tasks have in fact been performed during the performance period for each type of ventilation system equipment. For future submittals, provide periodic system maintenance status reports or maintenance logs written during the performance period for each type of ventilation system equipment to demonstrate that scheduled preventive maintenance has been carried out.

03/21/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that the project building is mechanically conditioned, in part or in whole.

However, to demonstrate compliance, the following must be addressed.

#### TECHNICAL ADVICE

1. The form is incomplete and states only that the building is mechanically conditioned. Complete the form to state how the building is ventilated, and the compliance path used to comply with the minimum requirements of ASHRAE Standard 62.1 or its non-U.S. equivalent. Expand all required fields and provide all required documentation.
2. Provide supporting VRP calculations (using the Minimum Indoor Air Quality Performance calculator, available at <http://www.usgbc.org/resources/minimum-indoor-air-quality-performance-calculator>) for each AHU in the project; a periodic system maintenance status report or maintenance logs written during the performance period; and a description of the outside air flow measurement protocol (and/or natural ventilation documentation), including testing dates, methodology, devices used, accuracy of the tests, and how worst case conditions were simulated.
3. Confirm that the provided supporting VRP calculations for each AHU in the project account for the peak occupancy and all occupiable spaces that are required to receive outside air to comply with the minimum requirements of ASHRAE Standard 62.1 or its non-U.S. equivalent. Ensure that the calculations are made at the system level, i.e. at the furthest point along the distribution system prior to outside air being mixed with return air.
4. Confirm how all mechanical ventilation systems operate under worst conditions and during all occupied hours, including during the winter season when mechanical air conditioning is not required. Provide measured outside air values for all mechanical systems, taken at the furthest point along the distribution system prior to outside air being mixed with return air.
5. The results of exhaust system testing have not been provided. Provide at least one testing report for each different type of exhaust system. The exhaust system test must include verification of each exhaust fan's operation (will the fan operate?), proper function (voltage or amperage), controls (to ensure the fan is under control), and sequence of operations (to ensure that either manual or digital controls are operating fan according to the desired schedule). For additional information on testing report requirements, refer to the Implementation section of IEQp1 in the LEED-EB O+M v2009 Reference Guide.

### IEQp2: Environmental Tobacco Smoke (ETS) Control

**Awarded**

03/14/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that smoking is prohibited in the entire project building and on the entire site.

  
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### IEQp3: Green Cleaning Policy

**Awarded**

05/25/2017 STANDARD FINAL REVIEW

The additional documentation demonstrates compliance.

03/20/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that a Green Cleaning Policy has been implemented.

However, to demonstrate compliance, the following must be addressed.

#### TECHNICAL ADVICE

1. Because the document provided is both the Green Cleaning Policy and the High Performance Green Cleaning Program (IEQc3.1), the document must contain the required elements of both the policy and program models. Quality Assurance/Quality Control Processes have not been addressed in sufficient detail. Provide a revised policy/program that addresses Quality Assurance/Quality Control Processes, including how the responsible party verifies that the plan is being successfully implemented, that the performance measurement methods truly reflect the actual outcomes, and that sustainable performance persists over time.
2. The policy/program does not sufficiently address the establishment of standard operating procedures for the cleaning system. Provide a revised policy/program that addresses the establishment of standard operating procedures for how an effective cleaning and hard floor and carpet maintenance system will be consistently utilized, managed, and audited.
3. The policy/program does not adequately address the staffing plan. Provide a revised policy/program that includes an appropriate staffing plan. The staffing plan may include such details as the number of custodial/maintenance staff that are working at any given time during operating hours and confirmation that this number of staff is sufficient to cover the specific needs of the project building.
4. The policy/program does not address the use of chemical concentrates. Provide a revised policy/program that addresses the use of chemical concentrates with appropriate dilution systems to minimize chemical use wherever possible.
5. The policy does not sufficiently address guidelines regarding the safe handling and storage of cleaning chemicals. Provide a revised policy/program that includes guidelines for safe handling and storage of cleaning chemicals used in the building, including a plan for managing hazardous spills or mishandling incidents.
6. The policy/program does not include provisions for collecting occupant feedback. Provide a revised policy/program that includes provisions for collecting occupant feedback and continuous improvement to evaluate new technologies, procedures, and processes.
7. The policy/program does not address improving hand hygiene. Provide a revised policy/program that includes strategies for promoting and improving hand hygiene, including both hand washing and the use of alcohol-based waterless hand sanitizers.
8. The policy/program does not include standard operating procedures that specifically address cleaning to protect vulnerable building occupants. Provide a revised policy/program that includes standard cleaning procedures to protect vulnerable building occupants. These procedures may identify likely occupants who are disproportionately affected by cleaning practices and propose methods to minimize impact on those groups. These methods may include adjustments to cleaning procedures, frequencies, or timing.

Note the following:

- I. Although all vacuums are required to be CRI Green Label certified, the vacuum in the approved equipment list does not appear to meet this requirement. For future submittals, provide a revised approved equipment list that includes only vacuums that are CRI Green Label certified and operate at less than 70 dBA, or note in the list that the vacuums are noncompliant.
- II. Sample policy and program templates are available from the Resources tab of this prerequisite in the LEED Credit Library (<http://www.usgbc.org/resources/ieq3-green-cleaning-policy-template> and <http://www.usgbc.org/resources/ieqc31-high-performance-cleaning-program-template>) and may be helpful as a reference in addressing the technical advice above. If using these templates for the Final Review, ensure that the policy/plan is tailored as appropriate to reflect the circumstances of operations in the project building.

#### **IEQc1.1: Indoor Air Quality Best Management Practices-Indoor Air Quality Management Program**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**Awarded: 1**

  
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05/31/2017 STANDARD FINAL REVIEW

The additional documentation demonstrates compliance.

Note the following:

- I. Sections 6.1, 6.3, and 6.4 of the IAQ Management Plan do not meet the credit requirements as protocols to manage at least two significant indoor air pollutant sources. Because sections 3-5 of the IAQ Management Plan and section 6.2 (Painting) of the plan do meet credit requirements, compliance is not affected. It is noted that the Integrated Pest Management Plan provided in IEQc3.6 is a qualifying protocol. Sections 6.1 (Renovation) and 6.3 (Pest Control) do not meet the requirements for an adequate IAQ management plan during construction or for an adequate integrated pest management plan. Section 6.4 (smoking) does not satisfy credit requirements because a smoking prohibition inside the building and within 25 feet of any entrance, operable window, or indoor air intake is a prerequisite for earning LEED-EB certification, rather than an optional protocol. For future submittals, provide the IEQc1.5 IAQ Management for Facility Alterations and Additions plan, the painting protocol (section 6.2 of this plan), and/or the IEQc3.6 Integrated Pest Management Plan to demonstrate compliance with this credit.

03/15/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that an IAQ management program based on the EPA I-BEAM program has been developed and implemented.

However, to demonstrate compliance, the following must be addressed.

TECHNICAL ADVICE

1. The project must have in place protocols to address at least two significant pollutant sources. A compliant IAQ Management Plan has been provided. Provide a protocol to manage at a second significant pollutant source (painting, pest control, or shipping and receiving).
2. The first form narrative does not describe how occupants are made aware of the IAQ complaint protocol. Provide a revised form narrative describing how occupants are made aware of the IAQ complaint protocol.

IEQc1.2: Indoor Air Quality Best Management Practices-Outdoor Air Delivery Monitoring  
POSSIBLE POINTS: 1

Not Attempted

IEQc1.3: Indoor Air Quality Best Management Practices-Increased Ventilation  
POSSIBLE POINTS: 1

Not Attempted

IEQc1.4: Indoor Air Quality Best Management Practices-Reduce Particulates in Air Distribution  
POSSIBLE POINTS: 1

Not Attempted

**IEQc1.5: IAQ Best Management Practices-IAQ Management for Facility Alterations and Additions**      **Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1



05/25/2017 STANDARD FINAL REVIEW

The additional documentation demonstrates compliance.

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03/19/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that an IAQ Management Plan has been developed for implementation during facility alterations and additions. At least one facility alteration or addition occurred during the performance period.

However, to demonstrate compliance, the following must be addressed.

TECHNICAL ADVICE

1. It is unclear whether the facility alterations/additions meet the minimum requirements for inclusion in LEED-EB O+M. Page xxiii of the LEED-EB O+M v2009 Reference Guide states that for alterations to be included, they must include construction activity by more than one trade specialty, make substantial changes to at least one entire room in the building, and require isolation of the work site from regular building occupants for the duration of construction. For additions, those that increase the total building floor area by at least 5% may be included. Provide a narrative describing the facility alterations and additions that were experienced during the performance period and demonstrate that they meet the criteria defined in the Reference Guide. If the facility alterations/additions meet the minimum requirements for inclusion in LEED-EB O+M, provide the following:

- a. Photographs highlighting the IAQ Management Plan practices that were implemented during the alteration. Label the photographs to identify the highlighted approach. The photographs must demonstrate that HVAC protection, source control, pathway interruption, and housekeeping practices were implemented according to the SMACNA standard recommendations. Alternatively, if photographs of the alteration were not taken or are not available, provide a detailed narrative describing how each of these practices was executed during the course of the alteration.
- b. A description of the building flush-out procedure. Provide data regarding outdoor airflow, duration of flush-out, and size of the space flushed, such that it can be verified that the flush out was implemented according to credit requirements. Clearly demonstrate that at least 14,000 cubic feet of outside air per square foot of floor area was supplied and at least 3,500 cubic feet of outside air per square foot of floor area was supplied before occupancy.

Alternatively, if the facility alterations/additions do not meet the minimum requirements for inclusion in LEED-EB O+M, revise the LEED Form to state that no facility alterations or additions occurred during the performance period. In this case, MRc3 and MRc9 cannot be achieved.

Note the following:

I. The IAQ Management Plan has not been provided. Because the plan was provided in IEQc1.1, compliance is not affected. For future submittals, provide all required documentation in the credit or prerequisite for which it is requested.

**IEQc2.1: Occupant Comfort-Occupant Survey**

**Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**03/19/2017 STANDARD PRELIMINARY REVIEW**

The LEED Form states that an occupant comfort survey has been conducted and was offered to all regular occupants of the project building and that at least a 30% response rate was obtained.

Note the following:

I. As noted in P1f3, the number of regular occupants stated in the LEED Form includes visitors. Because visitors cannot be considered regular occupants of the building, they should not be included in this credit. Because the percentage of respondents is over 30% after the number of regular occupants is corrected to 6,159, compliance is not affected. For future submittals, enter the correct number of regular occupants.

II. The LEED Form narrative presents the survey results in terms of the percent of occupants mostly satisfied with each comfort issue. The form requests the percent dissatisfaction with each comfort issue. Because it is clear from the results provided that less than 20% of occupants were dissatisfied with each issue, compliance is not affected. For future submittals, present the survey results in terms of percent dissatisfaction with each issue.

**IEQc2.2: Controllability of Systems-Lighting**

**Not Attempted**

POSSIBLE POINTS: 1

**IEQc2.3: Occupant Comfort-Thermal Comfort Monitoring**

**Not Attempted**

POSSIBLE POINTS: 1

**IEQc2.4: Daylight and Views**

**Attempted**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**03/15/2017 STANDARD PRELIMINARY REVIEW**

The LEED Form states that the project has achieved direct line of sight to vision glazing in 90.4% of regularly occupiable spaces.

**IEQc3.1: Green Cleaning-High Performance Cleaning Program**

**Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**05/25/2017 STANDARD FINAL REVIEW**

The additional documentation demonstrates compliance.

**03/15/2017 STANDARD PRELIMINARY REVIEW**

The LEED Form states that a Green Cleaning Policy has been implemented.

However, to demonstrate compliance, the following must be addressed.

**TECHNICAL ADVICE**

1. IEQp3 must be achieved before IEQc3.1 may be awarded. Address the comments provided for IEQp3 and resubmit this credit.

Note the following:

I. The same policy/program document has been provided for both IEQp3 and this credit. The document has been reviewed as both a policy and a program in IEQp3.

  
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**IEQc3.2: Green Cleaning-Custodial Effectiveness Assessment**

**Awarded: 1**

POSSIBLE POINTS: 1  
ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**05/25/2017 STANDARD FINAL REVIEW**

The additional documentation demonstrates that the facility received an APPA audit score of 1.11.

**03/19/2017 STANDARD PRELIMINARY REVIEW**

The LEED Form states that an audit in accordance with APPA Leadership in Educational Facilities Custodial Staffing Guidelines has been conducted and that the facility received a score of 1.12.

However, to demonstrate compliance, the following must be addressed.

**TECHNICAL ADVICE**

1. It is unclear whether a sufficient quantity of spaces have been audited. The total area included in the General Building Information tab of the Amity-APPA Audit forms is 52,588 square feet, which differs significantly from the total building area reported in PIF3 (484,364 square feet). The square feet audited reported in the Roster of Audit Spaces tab is 22,112 square feet, and it is unclear if this represents 10% of the total cleanable space. Some differences in the square footage of total cleanable space and the building gross square footage are reasonable, given that not all space types (mechanical rooms, for example) are required to be included in the APPA audit, but the difference here is greater than expected. Provide a revised General Building Information tab that lists the total square footage of all applicable building space types, or provide a narrative explaining why the total cleanable space is significantly different than the total gross square footage. If necessary, perform a new audit that includes at least 10% of the cleanable area of the building. At least five rooms must be audited for each space type (unless there are fewer than five rooms, in which case all rooms should be audited.) Note that corridors and stairwells must be included in the space types audited. For assistance in determining what spaces must be audited, see the IEQ Space Type Matrix, available at <http://www.usgbc.org/resources/environmental-quality-space-type-matrix>.

**IEQc3.3: Green Cleaning-Purchase of Sustainable Cleaning Products and Materials**

**Awarded: 1**

POSSIBLE POINTS: 1  
ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**05/25/2017 STANDARD FINAL REVIEW**

The additional documentation demonstrates that 32.48% of the purchases of cleaning materials and products during the performance period satisfied sustainability criteria.

**03/20/2017 STANDARD PRELIMINARY REVIEW**

The LEED Form states that the project maintained a sustainable purchasing program for cleaning materials and products, disposable janitorial paper products, and trash bags, and that 43.05% of the purchases during the performance period satisfied sustainability criteria.

However, to demonstrate compliance, the following must be addressed.

**TECHNICAL ADVICE**

1. The same data has been provided for both Amity University Haryana and Amity University Rajasthan. Provide data specific for this project building.
2. The photos provided for the Taski R2 and Taski R9 products do not document that these products are Green Seal 37 certified. Provide documentation demonstrating that these products are Green Seal certified, or that they meet a different sustainability criterion. Alternatively, remove them from the LEED Form table.

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**IEQc3.4: Green Cleaning-Sustainable Cleaning Equipment**

**Awarded: 1**

POSSIBLE POINTS: 1  
ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**05/25/2017 STANDARD FINAL REVIEW**

The additional documentation demonstrates that, at the close of the performance period, 100% of janitorial equipment in use in the project building satisfied sustainability criteria.

**03/21/2017 STANDARD PRELIMINARY REVIEW**

The LEED Form states that a program for the use of janitorial equipment has been established within the project building and associated grounds. At the close of the performance period, 100% of janitorial equipment as measured

by the number of equipment items in use within the project building and associated grounds meets one of the required sustainability criteria.

However, to demonstrate compliance, the following must be addressed.

#### TECHNICAL ADVICE

1. It is not clear that the vacuums in the LEED Form are CRI Seal of Approval certified. Provide documentation that these vacuums are CRI Seal of Approval certified, or revise the form table to indicate that they do not meet the sustainability criteria for vacuums. Alternatively, provide documentation demonstrating that the vacuums meeting the CRI Seal of Approval program testing criteria for commercial use at <http://www.carpet-rug.org/vacuum-testing-criteria.html>.

### **IEQc3.5: Green Cleaning-Indoor Chemical and Pollutant Source Control**

**Denied**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 1, PENDING: 0, AWARDED: 0

#### 05/31/2017 STANDARD FINAL REVIEW

Additional documentation has been provided.

However, it does not demonstrate compliance for the following reasons:

1. It appears that there are still several entrances, as shown on the ground-floor plan, that do not have entryway systems. For example, the lecture hall at the top left corner of the plan appears to have three entrances without entryway systems. Likewise, the floor plan shows a wing below this lecture hall with an exterior staircase leading into a lounge area; no entryway at this staircase entrance is shown, and it is not marked as an emergency exit.

For future submittals, including an appeal, provide revised floor plans that highlight all entryways and installed entryway systems. Clearly indicate any entryways that satisfy credit exclusion criteria: entries that were not in use during the performance period, emergency exits, and entries to private offices.

2. The photos provided in the clarification narrative show that several of the entryway mats are outside of the building. LEED Interpretation 10098 allows for a portion of the entryway system to be located outside of the building, if covered, only when there are physical impediments to including the entire entryway system indoors.

For future submittals, including an appeal, if any portion of an entryway system is located on the exterior, provide drawings or a photograph and a narrative describing how physical impediments prevent the project from locating ten feet of entryway system within the building as well as photographs demonstrating that the entirety of any exterior portion of the entryway system is protected by an awning, at minimum. Otherwise, provide photographs or a revised floor plan demonstrating that the entryway system has been relocated in its entirety to the interior of the building. Confirm that it is placed immediately inside the entry and is at least 10 feet in the primary direction of travel.

#### 03/19/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that the project building utilizes entryway systems to reduce the amount of dirt, dust, pollen, and other particles entering the building.

However, to demonstrate compliance, the following must be addressed.

#### TECHNICAL ADVICE

1. According to the floor plans it appears that there are several entryways in the project building that do not have installed entryway systems (two entries in the upper right of the floor plan and one at the bottom). In order to meet the requirements of this credit, all building entrances must have a compliant entryway system in place. Provide revised floor plans that highlight all entryways and installed entryway systems. Clearly indicate any entryways that satisfy credit exclusion criteria: entries that were not in use during the performance period, emergency exits, and entries to private offices.

### **IEQc3.6: Green Cleaning-Indoor Integrated Pest Management**

**Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

#### 06/22/2017 STANDARD FINAL REVIEW

The additional documentation demonstrates compliance.

#### 03/19/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that an indoor integrated pest management plan was in place and fully implemented during the performance period.

However, to demonstrate compliance, the following must be addressed.

*Mhmt*  
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## TECHNICAL ADVICE

1. An Integrated Pest Management plan meeting the credit requirements has not been provided. Provide a copy of the IPM plan. A sample plan template is available from the Resources tab of this credit in the LEED Credit Library (<http://www.usgbc.org/resources/ieqc36-green-cleaning-indoor-ipm-plan-template>) and may be helpful as a reference in developing an IPM plan. If using this template for the Final Review, ensure that it is tailored as appropriate to reflect the circumstances of operations in the project building. The plan must include the following:
    - a. A statement that the IPM will be implemented 100% of the time.
    - b. A description of integrated pest control methods as the first step in eliminating pests. The plan must utilize integrated methods, site or pest inspections, pest population monitoring, evaluation of the need for pest control and one or more pest control methods, including sanitation, structural repairs, mechanical, and living biological controls, and other nonchemical methods as the first step in eliminating pests.
    - c. A definition of a least toxic pesticide that evaluates least toxic and non-least toxic pesticides according to the San Francisco Hazard Review Process as is consistent with the definition outlined in the Implementation section of IEQc3.6 in the LEED-EB O+M v2009 Reference Guide. Per the Implementation section of IEQc3.6 Green Cleaning - Integrated Pest Management in the LEED-EB O+M v2009 Reference Guide, a least toxic chemical pesticide is any pesticide product for which all active ingredients and known inert ingredients meet the least toxic Tier III hazard criteria under the San Francisco Hazard Review Process. The official San Francisco Hazard Review Process is available at <http://www.sfenvironment.org/article/residents/leasttoxic-pesticides-for-green-buildings>. Least toxic also applies to any pesticide product, other than rodent bait, that is applied in a self-contained, enclosed bait station placed in an inaccessible location. The Pesticide Research Institute's PestSmart tool (<http://pesticideresearch.com/site/pestsmart/>) or Pesticide Product Evaluator tool (<https://pesticideresearch.com/site/evaluator/>, subscription-based) may also be referenced in the plan to provide immediate San Francisco Hazard Review Process evaluation results for pesticides in the tools' database.
    - d. A description of the types of rodent baits permitted for use at the project building. According to the Implementation section of IEQc3.6 in the LEED-EB O+M v2009 Reference Guide, rodent baits shall only be used if they are solid blocks placed in locked outdoor dispensers. No second-generation (single-feed) rodent baits may be used if the building is adjacent to parkland, wild areas, or other spaces where wildlife may be unintentionally affected. In addition, rodent baits are not considered least toxic under any circumstances.
    - e. A statement that clearly defines what constitutes an emergency circumstance under which an emergency application of pesticides can be conducted.
    - f. A universal notification system to notify building occupants of the application of a non-least toxic pesticide. These universal notification procedures should require notice of not less than 72 hours before application (under normal conditions) and 24 hours after application (in emergency conditions) of a pesticide other than a least-toxic pesticide. Refer to the Implementation section of IEQc3.6 in the LEED-EB O+M v2009 Reference Guide for the definition of a least toxic pesticide.
  2. A pesticide log meeting the requirement of the credit has not been provided. Provide a pesticide log with clearly legible information, including pesticide names, active ingredients, and EPA numbers, along with application date(s) and information on the specific location(s) in each space where the pesticide was applied (i.e. crack and crevice application vs. general spray). This log must describe how and when Universal Notification requirements were met for any non-least toxic pesticides, including pesticide applications in emergency situations. In addition, demonstrate that alternative integrated pest management methods were pursued before applying non-least toxic pesticides. Refer to the Implementation section of IEQc3.6 in the LEED-EB O+M v2009 Reference Guide for a sample pesticide log. Alternatively, provide a declaration that no pesticide applications occurred during the performance period.
  3. The document provided indicates that non-least toxic pesticides were applied during the performance period. These include Maxforce Gel and Cypermethrin, which are non-least toxic according to the PestSmart tool. These also include D-Thrin, Spotkill, Flyco 20 EC, and Bromodiolone cake, which are not evaluated in the PestSmart tool and so must be assumed to be non-least toxic until they are evaluated. It is unclear whether Universal Notification took place. If pesticides other than least toxic pesticides are used, Universal Notification must be exercised. For each use of a non-least toxic pesticide, provide a narrative describing the date, time, and method of universal occupant notification. In addition, demonstrate that alternative integrated pest management methods were pursued before applying the pesticide. Alternatively, demonstrate that the products were applied in a way that complies with the definition of a least toxic pesticide, as listed in the Implementation section of IEQc3.6 in the LEED-EB O+M v2009 Reference Guide. As clarified by LEED Interpretation 10204, "The use of non-least toxic pesticides or rodenticides as pest control in areas requiring frequent treatment on a permanent basis is not an acceptable strategy for this credit. Projects are encouraged to use integrated management methods and explore alternatives to chemical pesticides. If a building is located on a site in which integrated methods are unable to control pest populations, and non-least toxic pesticides are continuously applied to the site [regardless of universal notification], this credit may not be achievable."
- Note the following:
1. If a pesticide is not listed in the Pesticide Research Institute's PestSmart tool (<http://pesticideresearch.com/site/pestsmart/>) or Pesticide Product Evaluator tool (<https://pesticideresearch.com/site/evaluator/>, subscription-based), its toxicity can be evaluated using the San Francisco Hazard Review Process (<http://www.sfenvironment.org/download/guide-to-the-reduced-risk-pesticide-list-revised-2013>). If the Hazard Review Process is used to evaluate toxicity for a given pesticide, provide a narrative documenting the results of the screening process after assigning a ranking of High, Moderate, or Low for each

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characteristic based on the ranges or values shown in Table 3 of this document.

II. Per LEED Interpretation 10111, products that are not regulated as pesticides by the EPA because they primarily contain low-risk ingredients may also be considered least toxic options. For more information about ingredients which may be exempt from EPA registration, see Minimum Risk Pesticides Exempted under FIFRA Section 25(b): [http://www.epa.gov/PR\\_Notices/pr2000-6.pdf](http://www.epa.gov/PR_Notices/pr2000-6.pdf).



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## Innovation in Operations

### IOc1.1: Innovation in Operations

**Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

#### 05/26/2017 STANDARD FINAL REVIEW

The additional documentation provided for SSc4 demonstrates exemplary performance.

#### 03/19/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that the project achieves exemplary performance for SSc4 as specified in the LEED-EB O+M v2009 Reference Guide.

However, to demonstrate compliance, the following must be addressed.

#### TECHNICAL ADVICE

1. Address the comments provided for SSc4 and resubmit this credit.

Note the following:

I. Only three exemplary performance credits can be earned. Four have been attempted. In place of one of the attempted exemplary performance credits an Innovation in Operations credit may be attempted.

### IOc1.2: Innovation in Operations

**Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

#### 05/26/2017 STANDARD FINAL REVIEW

The additional documentation provided for WEc2 demonstrates exemplary performance.

#### 03/19/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that the project achieves exemplary performance for WEc2 as specified in the LEED-EB O+M v2009 Reference Guide.

However, to demonstrate compliance, the following must be addressed.

#### TECHNICAL ADVICE

1. Address the comments provided for WEc2 and resubmit this credit.

Note the following:

I. Only three exemplary performance credits can be earned. Four have been attempted. In place of one of the attempted exemplary performance credits an Innovation in Operations credit may be attempted.

### IOc1.3: Green Education

**Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

#### 05/26/2017 STANDARD FINAL REVIEW

The former proposal for exemplary performance for IEQc2.4 has been replaced with a proposal for an innovation credit based on green education.

The LEED Form states that an educational program on the environmental and human health benefits of green building practices and how building occupants or the public can improve green performance has been developed and implemented.

Note the following:

I. The documentation states that building tours highlighting the building's green features are available, but does not indicate whether tours were given during the performance period and does not provide details of what is shown on the tour. For future submittals, provide a narrative listing dates during the performance period on which the tour was conducted and describe some of the building features shown on the tour.

#### 03/20/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that the project achieves exemplary performance for IEQc2.4 as specified in the LEED-EB O+M

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v2009 Reference Guide.

However, to demonstrate compliance, the following must be addressed.

TECHNICAL ADVICE

1. In order to achieve exemplary performance for this credit, both 75% daylight and 90% views must be addressed. Only access to views have been demonstrated. Revise the IEQc2.4 submission to demonstrate access to daylight and resubmit this credit. Alternatively, an alternate Innovation in Operations credit may be attempted.

Note the following:

I. Only three exemplary performance credits can be earned. Four have been attempted. In place of one of the attempted exemplary performance credits an Innovation in Operations credit may be attempted.

**IOc1.4: Innovation in Operations**

**Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

05/26/2017 STANDARD FINAL REVIEW

The additional documentation provided for IEQc3.2 demonstrates exemplary performance.

03/19/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that the project achieves exemplary performance for IEQc3.2 as specified in the LEED-EB O+M v2009 Reference Guide.

However, to demonstrate compliance, the following must be addressed.

TECHNICAL ADVICE

1. Address the comments provided for IEQc3.2 and resubmit this credit.

Note the following:

I. Only three exemplary performance credits can be earned. Four have been attempted. In place of one of the attempted exemplary performance credits an Innovation in Operations credit may be attempted.

**IOc2: LEED® Accredited Professional**

**Awarded: 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1


03/15/2017 STANDARD PRELIMINARY REVIEW

The LEED Form states that a project team member is a LEED Accredited Professional.

**IOc3: Documenting Sustainable Building Cost Impacts**

POSSIBLE POINTS: 1

Not Attempted

  
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## Regional priority

SSc7.2: Heat Island Reduction-Roof  
POSSIBLE POINTS: 1  
ATTEMPTED: 1, DENIED: , PENDING: , AWARDED: 1

WEc2: Additional Indoor Plumbing Fixture  
and Fitting Efficiency  
POSSIBLE POINTS: 1  
ATTEMPTED: 1, DENIED: , PENDING: , AWARDED: 1

MRC7: Solid Waste Management-Ongoing  
Consumables  
POSSIBLE POINTS: 1  
ATTEMPTED: 1, DENIED: , PENDING: , AWARDED: 1

MRC8: Solid Waste Management-Durable  
Goods  
POSSIBLE POINTS: 1  
ATTEMPTED: 1, DENIED: , PENDING: , AWARDED: 1

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TOTAL

110

83

2

0

81

A handwritten signature in black ink, appearing to be 'MhM' followed by a flourish.

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# REVIEW SUMMARY

## Review

	SUBMITTED	RETURNED	POINTS:			
			SUBMITTED	DENIED	PENDING	AWARDED
<b>O and M Preliminary</b>	<b>01/20/2017</b>	<b>03/21/2017</b>	<b>90</b>	<b>0</b>	<b>76</b>	<b>13</b>
Credit	STATUS	TYPE	POINTS: ATTEMPTED	DENIED	PENDING	AWARDED
PIf1: Minimum Program Requirements	Approved		0	0	0	0
PIf2: Project Summary Details	Approved		0	0	0	0
PIf3: Occupant and Usage Data	Not Approved		0	0	0	0
PIf4: Schedule and Overview Documents	Not Approved		0	0	0	0
PIf5: Previously LEED Certified Details	Approved		0	0	0	0
SSc2: Building Exterior and Hardscape Management Plan	Pending	Standard	1	0	1	0
SSc3: Integrated Pest Management, Erosion Control, and Landscape Management Plan	Pending	Standard	1	0	1	0
SSc4: Alternative Commuting Transportation	Pending	Standard	15	0	15	0
SSc5: Site Development-Protect or Restore Open Habitat	Pending	Standard	1	0	1	0
SSc6: Stormwater Quantity Control	Pending	Standard	1	0	1	0
SSc7.1: Heat Island Reduction-Non-Roof	Pending	Standard	1	0	1	0
SSc7.2: Heat Island Reduction-Roof	Awarded	Standard	2	0	0	2
SSc8: Light Pollution Reduction	Pending	Standard	1	0	1	0
WEp1: Minimum Indoor Plumbing Fixture and Fitting Efficiency	Pending	Standard	0	0	0	0
WEc2: Additional Indoor Plumbing Fixture and Fitting Efficiency	Pending	Standard	6	0	6	0
WEc3: Water Efficient Landscaping	Awarded	Standard	5	0	0	5
EAp1: Energy Efficiency Best Management Practices-Planning, Documentation, and Opportunity Assessment	Pending	Standard	0	0	0	0
EAp2: Minimum Energy Efficiency Performance	Pending	Standard	0	0	0	0
EAp3: Fundamental Refrigerant Management	Awarded	Standard	0	0	0	0
EAc1: Optimize Energy Efficiency Performance	Pending	Standard	18	0	18	0
EAc2.1: Existing Building Commissioning-Investigation and Analysis	Pending	Standard	2	0	2	0
EAc5: Enhanced Refrigerant Management	Pending	Standard	1	0	1	0
EAc6: Emissions Reduction Reporting	Pending	Standard	1	0	1	0
MRp1: Sustainable Purchasing Policy	Awarded	Standard	0	0	0	0
MRp2: Solid Waste Management Policy	Awarded	Standard	0	0	0	0
MRC1: Sustainable Purchasing-Ongoing Consumables	Pending	Standard	1	0	1	0
MRC2.1: Sustainable Purchasing Electric-Powered Equipment	Pending	Standard	1	0	1	0
MRC2.2: Sustainable Purchasing-Furniture	Pending	Standard	1	0	1	0
MRC3: Sustainable Purchasing-Facility Alterations and Additions	Pending	Standard	1	0	1	0

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MR4: Sustainable Purchasing-LED and Mercury Lamps	Awarded	Standard	1	0	0	1
MR5: Sustainable Purchasing-Cellular	Pending	Standard	1	0	1	0
MR6: Solid Waste Management-Waste Stream Audit	Pending	Standard	1	0	1	0
MR7: Solid Waste Management-Ongoing Consumables	Pending	Standard	2	0	2	0
MR8: Solid Waste Management-Durable Goods	Awarded	Standard	2	0	0	2
MR9: Solid Waste Management-Facility Alterations and Additions	Pending	Standard	1	0	1	0
IEQp1: Minimum Indoor Air Quality Performance	Pending	Standard	0	0	0	0
IEQp2: Environmental Tobacco Smoke (ETS) Control	Awarded	Standard	0	0	0	0
IEQp3: Green Cleaning Policy	Pending	Standard	0	0	0	0
IEQc1.1: Indoor Air Quality Best Management Practices-Indoor Air Quality Management Program	Pending	Standard	1	0	1	0
IEQc1.5: IAQ Best Management Practices-IAQ Management for Facility Alterations and Additions	Pending	Standard	1	0	1	0
IEQc2.1: Occupant Comfort-Occupant Survey	Awarded	Standard	1	0	0	1
IEQc2.4: Daylight and Views	Awarded	Standard	1	0	0	1
IEQc3.1: Green Cleaning-High Performance Cleaning Program	Pending	Standard	1	0	1	0
IEQc3.2: Green Cleaning-Custodial Effectiveness Assessment	Pending	Standard	1	0	1	0
IEQc3.3: Green Cleaning-Purchase of Sustainable Cleaning Products and Materials	Pending	Standard	1	0	1	0
IEQc3.4: Green Cleaning-Sustainable Cleaning Equipment	Pending	Standard	1	0	1	0
IEQc3.5: Green Cleaning-Indoor Chemical and Pollutant Source Control	Pending	Standard	1	0	1	0
IEQc3.6: Green Cleaning-Indoor Integrated Pest Management	Pending	Standard	1	0	1	0
IOc1.1: Innovation in Operations	Pending	Standard	1	0	1	0
IOc1.2: Innovation in Operations	Pending	Standard	1	0	1	0
IOc1.3: Green Education	Pending	Standard	1	0	1	0
IOc1.4: Innovation in Operations	Pending	Standard	1	0	1	0
IOc2: LEED® Accredited Professional	Awarded	Standard	1	0	0	1

  
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**O and M Final**

**05/21/201706/22/2017**

**70 2 0 68**

Credit	STATUS	TYPE	POINTS: ATTEMPTED	DENIED	PENDING	AWARDED
PI3: Occupant and Usage Data	Approved		0	0	0	0
PI4: Schedule and Overview Documents	Approved		0	0	0	0
SSc2: Building Exterior and Hardscape Management Plan	Awarded	Standard	1	0	0	1
SSc3: Integrated Pest Management, Erosion Control, and Landscape Management Plan	Denied	Standard	1	1	0	0
SSc4: Alternative Commuting Transportation	Awarded	Standard	15	0	0	15
SSc5: Site Development-Protect or Restore Open Habitat	Awarded	Standard	1	0	0	1
SSc6: Stormwater Quantity Control	Awarded	Standard	1	0	0	1
SSc7.1: Heat Island Reduction-Non-Roof	Awarded	Standard	1	0	0	1
SSc8: Light Pollution Reduction	Awarded	Standard	1	0	0	1
WEp1: Minimum Indoor Plumbing Fixture and Fitting Efficiency	Awarded	Standard	0	0	0	0
WEc2: Additional Indoor Plumbing Fixture and Fitting Efficiency	Awarded	Standard	6	0	0	6
EAp1: Energy Efficiency Best Management Practices-Planning, Documentation, and Opportunity Assessment	Awarded	Standard	0	0	0	0
EAc1: Optimize Energy Efficiency Performance	Awarded	Standard	18	0	0	18
EAc2.1: Existing Building Commissioning-Investigation and Analysis	Awarded	Standard	2	0	0	2
EAc5: Enhanced Refrigerant Management	Awarded	Standard	1	0	0	1
EAc6: Emissions Reduction Reporting	Awarded	Standard	1	0	0	1
MRC1: Sustainable Purchasing-Ongoing Consumables	Awarded	Standard	1	0	0	1
MRC2.1: Sustainable Purchasing Electric-Powered Equipment	Awarded	Standard	1	0	0	1
MRC2.2: Sustainable Purchasing-Furniture	Awarded	Standard	1	0	0	1
MRC3: Sustainable Purchasing-Facility Alterations and Additions	Awarded	Standard	1	0	0	1
MRC5: Sustainable Purchasing-Food	Awarded	Standard	1	0	0	1
MRC6: Solid Waste Management-Waste Stream Audit	Awarded	Standard	1	0	0	1
MRC7: Solid Waste Management-Ongoing Consumables	Awarded	Standard	2	0	0	2
MRC9: Solid Waste Management-Facility Alterations and Additions	Awarded	Standard	1	0	0	1
IEQp1: Minimum Indoor Air Quality Performance	Awarded	Standard	0	0	0	0
IEQp3: Green Cleaning Policy	Awarded	Standard	0	0	0	0
IEQc1.1: Indoor Air Quality Best Management Practices-Indoor Air Quality Management Program	Awarded	Standard	1	0	0	1
IEQc1.5: IAQ Best Management Practices-IAQ Management for Facility Alterations and Additions	Awarded	Standard	1	0	0	1
IEQc3.1: Green Cleaning-High Performance Cleaning Program	Awarded	Standard	1	0	0	1
IEQc3.2: Green Cleaning-Custodial	Awarded	Standard	1	0	0	1

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Effectiveness Assessment

IEQc3.3: Green Cleaning-Purchase of Sustainable Cleaning Products and Materials	Awarded	Standard	1	0	0	1
IEQc3.4: Green Cleaning-Use of Eco-friendly Cleaning equipment	Awarded	Standard	1	0	0	1
IEQc3.5: Green Cleaning-Indoor Chemical and Pollutant Source Control	Denied	Standard	1	1	0	0
IEQc3.6: Green Cleaning-Indoor Integrated Pest Management	Awarded	Standard	1	0	0	1
IOc1.1: Innovation in Operations	Awarded	Standard	1	0	0	1
IOc1.2: Innovation in Operations	Awarded	Standard	1	0	0	1
IOc1.3: Green Education	Awarded	Standard	1	0	0	1
IOc1.4: Innovation in Operations	Awarded	Standard	1	0	0	1

*Mamta*  
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