



LEED 2009 for New Construction and Major Renovations

Project Checklist

Project Name

Date

8 0 0

Sustainable Sites Possible Points: 26

| Y | ? | N | d/C | | |
|---|---|---|-----|------------|---|
| | | | C | Prereq 1 | Construction Activity Pollution Prevention |
| | | | d | Credit 1 | Site Selection 1 |
| | | | d | Credit 2 | Development Density and Community Connectivity 5 |
| | | | d | Credit 3 | Brownfield Redevelopment 1 |
| Y | | | d | Credit 4.1 | Alternative Transportation—Public Transportation Access 6 |
| | | | d | Credit 4.2 | Alternative Transportation—Bicycle Storage and Changing Rooms 1 |
| | | | d | Credit 4.3 | Alternative Transportation—Low-Emitting and Fuel-Efficient Vehicles 3 |
| | | | d | Credit 4.4 | Alternative Transportation—Parking Capacity 2 |
| Y | | | C | Credit 5.1 | Site Development—Protect or Restore Habitat 1 |
| Y | | | d | Credit 5.2 | Site Development—Maximize Open Space 1 |
| | | | d | Credit 6.1 | Stormwater Design—Quantity Control 1 |
| | | | d | Credit 6.2 | Stormwater Design—Quality Control 1 |
| | | | C | Credit 7.1 | Heat Island Effect—Non-roof 1 |
| | | | d | Credit 7.2 | Heat Island Effect—Roof 1 |
| | | | d | Credit 8 | Light Pollution Reduction 1 |

Notes:

earned for 1000028322 Merrill College Residence Halls A&B (Project No. 2635), 1000027683 UCSC Cogen Plant (Project No. 2113) and Hay Barn Restoration (Project No. 1326)SSc5.1

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Water Efficiency Possible Points: 10

| Y | ? | N | d/C | | |
|---|---|---|-----|----------|--------------------------------------|
| | | | d | Prereq 1 | Water Use Reduction—20% Reduction |
| | | | d | Credit 1 | Water Efficient Landscaping 2 to 4 |
| | | | | | Reduce by 50% 2 |
| | | | | | No Potable Water Use or Irrigation 4 |
| | | | d | Credit 2 | Innovative Wastewater Technologies 2 |
| | | | d | Credit 3 | Water Use Reduction 2 to 4 |
| | | | | | Reduce by 30% 2 |
| | | | | | Reduce by 35% 3 |
| | | | | | Reduce by 40% 4 |

Notes:

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| Y | ? | N |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Energy and Atmosphere Possible Points: 35

Notes:

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| c | Prereq 1 | Fundamental Commissioning of Building Energy Systems | |
| d | Prereq 2 | Minimum Energy Performance | |
| d | Prereq 3 | Fundamental Refrigerant Management | |
| d | Credit 1 | Optimize Energy Performance | 1 to 19 |
| | | <input checked="" type="checkbox"/> Improve by 12% for New Buildings or 8% for Existing Building Renovations | 1 |
| | | <input checked="" type="checkbox"/> Improve by 14% for New Buildings or 10% for Existing Building Renovations | 2 |
| | | <input checked="" type="checkbox"/> Improve by 16% for New Buildings or 12% for Existing Building Renovations | 3 |
| | | <input checked="" type="checkbox"/> Improve by 18% for New Buildings or 14% for Existing Building Renovations | 4 |
| | | <input checked="" type="checkbox"/> Improve by 20% for New Buildings or 16% for Existing Building Renovations | 5 |
| | | <input checked="" type="checkbox"/> Improve by 22% for New Buildings or 18% for Existing Building Renovations | 6 |
| | | <input checked="" type="checkbox"/> Improve by 24% for New Buildings or 20% for Existing Building Renovations | 7 |
| | | <input checked="" type="checkbox"/> Improve by 26% for New Buildings or 22% for Existing Building Renovations | 8 |
| | | <input checked="" type="checkbox"/> Improve by 28% for New Buildings or 24% for Existing Building Renovations | 9 |
| | | <input checked="" type="checkbox"/> Improve by 30% for New Buildings or 26% for Existing Building Renovations | 10 |
| | | <input checked="" type="checkbox"/> Improve by 32% for New Buildings or 28% for Existing Building Renovations | 11 |
| | | <input checked="" type="checkbox"/> Improve by 34% for New Buildings or 30% for Existing Building Renovations | 12 |
| | | <input checked="" type="checkbox"/> Improve by 36% for New Buildings or 32% for Existing Building Renovations | 13 |
| | | <input checked="" type="checkbox"/> Improve by 38% for New Buildings or 34% for Existing Building Renovations | 14 |
| | | <input checked="" type="checkbox"/> Improve by 40% for New Buildings or 36% for Existing Building Renovations | 15 |
| | | <input checked="" type="checkbox"/> Improve by 42% for New Buildings or 38% for Existing Building Renovations | 16 |
| | | <input checked="" type="checkbox"/> Improve by 44% for New Buildings or 40% for Existing Building Renovations | 17 |
| | | <input checked="" type="checkbox"/> Improve by 46% for New Buildings or 42% for Existing Building Renovations | 18 |
| | | <input checked="" type="checkbox"/> Improve by 48%+ for New Buildings or 44%+ for Existing Building Renovations | 19 |
| d | Credit 2 | On-Site Renewable Energy | 1 to 7 |
| | | <input checked="" type="checkbox"/> 1% Renewable Energy | 1 |
| | | <input checked="" type="checkbox"/> 3% Renewable Energy | 2 |
| | | <input checked="" type="checkbox"/> 5% Renewable Energy | 3 |
| | | <input checked="" type="checkbox"/> 7% Renewable Energy | 4 |
| | | <input checked="" type="checkbox"/> 9% Renewable Energy | 5 |
| | | <input checked="" type="checkbox"/> 11% Renewable Energy | 6 |
| | | <input checked="" type="checkbox"/> 13% Renewable Energy | 7 |
| c | Credit 3 | Enhanced Commissioning | 2 |

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- d Credit 4 Enhanced Refrigerant Management 2
- C Credit 5 Measurement and Verification 3
- C Credit 6 Green Power 2

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Materials and Resources

Possible Points: 14

Y ? N

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| Y | | |
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- d Prereq 1 Storage and Collection of Recyclables
- C Credit 1.1 Building Reuse—Maintain Existing Walls, Floors, and Roof 1 to 3
 - Reuse 55% 1
 - Reuse 75% 2
 - Reuse 95% 3
- C Credit 1.2 Building Reuse—Maintain 50% of Interior Non-Structural Elements 1
- C Credit 2 Construction Waste Management 1 to 2
 - 50% Recycled or Salvaged 1
 - 75% Recycled or Salvaged 2
- C Credit 3 Materials Reuse 1 to 2
 - Reuse 5% 1
 - Reuse 10% 2
- C Credit 4 Recycled Content 1 to 2
 - 10% of Content 1
 - 20% of Content 2
- C Credit 5 Regional Materials 1 to 2
 - 10% of Materials 1
 - 20% of Materials 2
- C Credit 6 Rapidly Renewable Materials 1
- C Credit 7 Certified Wood 1

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| Notes: |
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Indoor Environmental Quality

Possible Points: 15

Y ? N

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| Y | | |
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- d Prereq 1 Minimum Indoor Air Quality Performance
- d Prereq 2 Environmental Tobacco Smoke (ETS) Control
- d Credit 1 Outdoor Air Delivery Monitoring 1
- d Credit 2 Increased Ventilation 1
- C Credit 3.1 Construction IAQ Management Plan—During Construction 1
- C Credit 3.2 Construction IAQ Management Plan—Before Occupancy 1

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| Notes: |
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| C | Credit 4.1 | Low-Emitting Materials—Adhesives and Sealants | 1 |
| C | Credit 4.2 | Low-Emitting Materials—Paints and Coatings | 1 |
| C | Credit 4.3 | Low-Emitting Materials—Flooring Systems | 1 |
| C | Credit 4.4 | Low-Emitting Materials—Composite Wood and Agrifiber Products | 1 |
| d | Credit 5 | Indoor Chemical and Pollutant Source Control | 1 |
| d | Credit 6.1 | Controllability of Systems—Lighting | 1 |
| d | Credit 6.2 | Controllability of Systems—Thermal Comfort | 1 |
| d | Credit 7.1 | Thermal Comfort—Design | 1 |
| d | Credit 7.2 | Thermal Comfort—Verification | 1 |
| d | Credit 8.1 | Daylight and Views—Daylight | 1 |
| d | Credit 8.2 | Daylight and Views—Views | 1 |

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| 4 | 0 | 0 |
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Innovation and Design Process Possible Points: 6

Y ? N

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| Y | | |
| Y | | |
| Y | | |
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| Y | | |
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| d/C | Credit 1.1 | Innovation in Design: Green Housekeeping Program | 1 |
| d/C | Credit 1.2 | Innovation in Design: Exemplary Performance, SSc5.1 | 1 |
| d/C | Credit 1.3 | Innovation in Design: Exemplary Performance, SSc5.2 | 1 |
| d/C | Credit 1.4 | Innovation in Design: Specific Title | 1 |
| d/C | Credit 1.5 | Innovation in Design: Purchasing Program | 1 |
| d/C | Credit 2 | LEED Accredited Professional | 1 |

Notes:

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| 1 | 0 | 0 |
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Regional Priority Credits Possible Points: 4

Y ? N

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| Y | | |
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|-----|------------|------------------------------------|---|
| d/C | Credit 1.1 | RE - SSc4.1 | 1 |
| d/C | Credit 1.2 | Regional Priority: Specific Credit | 1 |
| d/C | Credit 1.3 | Regional Priority: Specific Credit | 1 |
| d/C | Credit 1.4 | Regional Priority: Specific Credit | 1 |

Notes:

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| 15 | 0 | 0 |
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Total Possible Points: 110

Certified 40 to 49 points Silver 50 to 59 points Gold 60 to 79 points Platinum 80 to 110



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 Building Certification Institute (GBCI®).

UCSC NC Master Site

| | |
|---------------------------|---------------|
| Project ID | 1000027879 |
| Rating system & version | LEED-NC v2009 |
| Project registration date | 10/15/2012 |



D and C Appeal Application

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

LEED FOR NEW CONSTRUCTION & MAJOR RENOVATIONS (V2009)

ATTEMPTED: 15, DENIED: 0, PENDING: 0, AWARDED: 15 OF 110 POINTS

SUSTAINABLE SITES 8 OF 26

| | | |
|--------|---|-------|
| SSp1 | Construction Activity Pollution Prevention | N |
| SSc1 | Site Selection | 0 / 1 |
| SSc2 | Development Density and Community Connectivity | 0 / 5 |
| SSc3 | Brownfield Redevelopment | 0 / 1 |
| SSc4.1 | Alternative Transportation-Public Transportation Access | 6 / 6 |
| SSc4.2 | Alternative Transportation-Bicycle Storage and Changing Rooms | 0 / 1 |
| SSc4.3 | Alternative Transportation-Low-Emitting and Fuel-Efficient Vehicles | 0 / 3 |
| SSc4.4 | Alternative Transportation-Parking Capacity | 0 / 2 |
| SSc5.1 | Site Development-Protect or Restore Habitat | 1 / 1 |
| SSc5.2 | Site Development-Maximize Open Space | 1 / 1 |
| SSc6.1 | Stormwater Design-Quantity Control | 0 / 1 |
| SSc6.2 | Stormwater Design-Quality Control | 0 / 1 |
| SSc7.1 | Heat Island Effect, Non-Roof | 0 / 1 |
| SSc7.2 | Heat Island Effect-Roof | 0 / 1 |
| SSc8 | Light Pollution Reduction | 0 / 1 |

WATER EFFICIENCY 0 OF 10

| | | |
|------|------------------------------------|-------|
| WEp1 | Water Use Reduction-20% Reduction | N |
| WEc1 | Water Efficient Landscaping | 0 / 4 |
| WEc2 | Innovative Wastewater Technologies | 0 / 2 |
| WEc3 | Water Use Reduction | 0 / 4 |

ENERGY AND ATMOSPHERE 0 OF 35

| | | |
|------|--|--------|
| EAp1 | Fundamental Commissioning of the Building Energy Systems | N |
| EAp2 | Minimum Energy Performance | 0 / 0 |
| EAp3 | Fundamental Refrigerant Mgmt | 0 / 0 |
| EAc1 | Optimize Energy Performance | 0 / 19 |
| EAc2 | On-Site Renewable Energy | 0 / 7 |
| EAc3 | Enhanced Commissioning | 0 / 2 |
| EAc4 | Enhanced Refrigerant Mgmt | 0 / 2 |
| EAc5 | Measurement and Verification | 0 / 3 |
| EAc6 | Green Power | 0 / 2 |

MATERIALS AND RESOURCES 0 OF 14

| | | |
|--------|---|-------|
| MRp1 | Storage and Collection of Recyclables | Y |
| MRc1.1 | Building Reuse-Maintain Existing Walls, Floors and Roof | 0 / 3 |
| MRc1.2 | Building Reuse, Maintain 50% of Interior | 0 / 1 |
| MRc2 | Construction Waste Mgmt | 0 / 2 |
| MRc3 | Materials Reuse | 0 / 2 |
| MRc4 | Recycled Content | 0 / 2 |

MATERIALS AND RESOURCES CONTINUED

| | | |
|------|-----------------------------|-------|
| MRc5 | Regional Materials | 0 / 2 |
| MRc6 | Rapidly Renewable Materials | 0 / 1 |
| MRc7 | Certified Wood | 0 / 1 |

INDOOR ENVIRONMENTAL QUALITY 2 OF 15

| | | |
|---------|--|-------|
| IEOp1 | Minimum IAQ Performance | N |
| IEQp2 | Environmental Tobacco Smoke (ETS) Control | 1 / 0 |
| IEQc1 | Outdoor Air Delivery Monitoring | 0 / 1 |
| IEQc2 | Increased Ventilation | 0 / 1 |
| IEQc3.1 | Construction IAQ Mgmt Plan-During Construction | 0 / 1 |
| IEQc3.2 | Construction IAQ Mgmt Plan-Before Occupancy | 0 / 1 |
| IEQc4.1 | Low-Emitting Materials-Adhesives and Sealants | 1 / 1 |
| IEQc4.2 | Low-Emitting Materials-Paints and Coatings | 1 / 1 |
| IEQc4.3 | Low-Emitting Materials-Flooring Systems | 0 / 1 |
| IEQc4.4 | Low-Emitting Materials-Composite Wood and Agrifiber Products | 0 / 1 |
| IEQc5 | Indoor Chemical and Pollutant Source Control | 0 / 1 |
| IEQc6.1 | Controllability of Systems-Lighting | 0 / 1 |
| IEQc6.2 | Controllability of Systems-Thermal Comfort | 0 / 1 |
| IEQc7.1 | Thermal Comfort-Design | 0 / 1 |
| IEQc7.2 | Thermal Comfort-Verification | 0 / 1 |
| IEQc8.1 | Daylight and Views-Daylight | 0 / 1 |
| IEQc8.2 | Daylight and Views-Views | 0 / 1 |

INNOVATION IN DESIGN 4 OF 6

| | | |
|--------|-------------------------------|-------|
| IDc1.1 | Innovation in Design | 1 / 1 |
| IDc1.1 | Innovation in Design | 0 / 1 |
| IDc1.2 | Innovation in Design | 0 / 1 |
| IDc1.2 | Innovation in Design | 1 / 1 |
| IDc1.3 | Innovation in Design | 1 / 1 |
| IDc1.3 | Innovation in Design | 0 / 1 |
| IDc1.4 | Innovation in Design | 0 / 1 |
| IDc1.4 | Innovation in Design | 0 / 1 |
| IDc1.5 | Innovation in Design | 1 / 1 |
| IDc1.5 | Innovation in Design | 0 / 1 |
| IDc2 | LEED® Accredited Professional | 0 / 1 |

REGIONAL PRIORITY CREDITS 1 OF 4

| | | |
|---------|---|-------|
| SSc4.1 | Alternative Transportation-Public Transportation Access | 1 / 1 |
| SSc7.1 | Heat Island Effect, Non-Roof | 0 / 1 |
| WEc2 | Innovative Wastewater Technologies | 0 / 1 |
| WEc3 | Water Use Reduction | 0 / 1 |
| EAc2 | On-Site Renewable Energy | 0 / 1 |
| IEQc8.1 | Daylight and Views-Daylight | 0 / 1 |

TOTAL 15 OF 110

CREDIT DETAILS



Project Information Forms

0

Plf1: Minimum Program Requirements

Approved

06/14/2013 DESIGN AND CONSTRUCTION PRELIMINARY REVIEW

The LEED Project Information Form has been submitted stating that the project complies with all Minimum Program Requirements except MPR 6: Must Commit to Sharing Whole-Building Energy and Water Usage Data, since the installation of energy and water meters is not relevant to the Master Site submittal. The project Owner has signed the form as required. The project is located in Santa Cruz, California.

08/19/2013 DESIGN AND CONSTRUCTION FINAL REVIEW

This Project Information Form was previously approved in the Design Preliminary Review. No changes have been made.

Plf2: Project Summary Details

Approved

06/24/2013 DESIGN AND CONSTRUCTION PRELIMINARY REVIEW

The LEED Project Information Form has been submitted including the following project summary details for the campus.

The total combined gross square footage of all buildings within the LEED campus boundary is 4,165,815 square feet, the site area within the LEED campus boundary is 87,146,473 square feet and the building area to site area ratio is 4.78%. The total combined footprint of all buildings within the LEED campus boundary is 1,846,211 square feet and the total hardscape area within the LEED campus boundary is 5,769,527 square feet. The site was previously developed.

However, the total number of parking spaces available to LEED Campus occupants has not been provided, as required.

TECHNICAL ADVICE:

Please provide a narrative describing the parking used by building occupants, along with a site/parking plan (with the LEED campus boundary clearly identified) describing and depicting the total parking capacity associated with the buildings within the LEED campus boundary and available for the building occupants. Revise the LEED Project Information Form to include the total number of parking spaces available to LEED Campus occupants.

For additional information regarding Master Site Campus documentation requirements, please visit the PI Forms section within the 2010 AGMBC section of the LEED Online Help Content.

Note that even though this LEED Project Information Form must be completed, reviewed, and 'awarded' at a campus level, each related, individual LEED project within this campus will also need to complete the form and meet the requirements in order to achieve certification.

08/19/2013 DESIGN AND CONSTRUCTION FINAL REVIEW

The LEED Project Information Form has been revised and a narrative has been provided to address the issue outlined in the Preliminary Review comments, stating that there are 5,189 parking spaces available to the occupants. Additionally, a LEED Campus Boundary Map and campus parking map have been provided depicting the parking located within the LEED Campus Boundary. The documentation demonstrates compliance.

Plf3: Occupant and Usage Data

Approved

06/24/2013 DESIGN AND CONSTRUCTION PRELIMINARY REVIEW

The LEED Project Information Form has been submitted and states that the total combined gross square footage of all buildings within the LEED campus boundary is 4,165,815 square feet.

However, details regarding campus wide documentation have not been provided, as required.

TECHNICAL ADVICE:

Please provide a narrative describing the occupant and usage data (as outlined in the Plf3 form) for each building within the LEED campus boundary.

For additional information regarding Master Site Campus documentation requirements, please visit the PI Forms section within the 2010 AGMBC section of the LEED Online Help Content.

Note that even though this LEED Project Information Form must be completed, reviewed, and 'awarded' at a campus level, each related, individual LEED project within this campus will also need to complete the form and meet the requirements in order to achieve certification.

08/19/2013 DESIGN AND CONSTRUCTION FINAL REVIEW

The LEED Project Information Form has been revised to address the issue outlined in the Preliminary Review comments and includes the following occupant and usage data. The occupant is a residential and non-profit organization with an occupant type that consists primarily of Core Learning Space: College/University spaces. The buildings are intended to be owner-occupied and owner-managed after project completion and will be occupied 250 days per year. A narrative has been provided describing the 16,465 students, 8,120 residents, and 2,800 staff and faculty for the campus. The documentation demonstrates compliance.

Plf4: Schedule and Overview Documents

Approved

06/17/2013 DESIGN AND CONSTRUCTION PRELIMINARY REVIEW

The LEED Project Information Form has been submitted and includes a list of the credits which are being pursued at a campus level within this Master Site, along with a list of two LEED projects that will likely be linked to the Master Site submittal in the near future. A narrative and site plan depicting the LEED campus boundary have been provided.

However, the submitted site plan does not identify the currently registered individual building LEED projects and any buildings not pursuing LEED Certification within the overall LEED campus boundary, as required.

TECHNICAL ADVICE:


Please provide a revised site plan identifying the currently registered individual building LEED projects and any buildings not pursuing LEED Certification within the overall LEED campus boundary.

For additional information regarding Master Site Campus documentation requirements for this prerequisite, please visit the PI Forms section within the 2010 AGMBC section of the LEED Online Help Content.


Note that even though this LEED Project Information Form must be completed, reviewed, and 'awarded' at a campus level, each related, individual LEED project within this campus will also need to complete the form and meet the requirements in order to achieve certification.


08/19/2013 DESIGN AND CONSTRUCTION FINAL REVIEW

A narrative response and site plan identifying the three currently registered individual building LEED projects, along with the completed buildings pursuing LEED Certification within the overall LEED campus boundary, have been provided to address the issue outlined in the Preliminary Review comments. The documentation demonstrates compliance.

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|---|----------------------|-----------|----------|----------|----------|----------|
|  Sustainable Sites | | 26 | 8 | 0 | 0 | 8 |
| SSp1: Construction Activity Pollution Prevention | Denied | | | | | |
| SSc1: Site Selection | Not Attempted | 1 | | | | |
| SSc2: Development Density and Community Connectivity | Not Attempted | 5 | | | | |
| SSc3: Brownfield Redevelopment | Not Attempted | 1 | | | | |
| SSc4.1: Alternative Transportation-Public Transportation Access | Awarded | 6 | 6 | 0 | 0 | 6 |
| 06/24/2013 DESIGN AND CONSTRUCTION PRELIMINARY REVIEW | | | | | | |
| <p>The LEED Credit Form has been provided stating that the Master Site complies with Option 2 and is served by eight campus or public bus lines within one quarter mile walking distance of each building's main entrance. Scaled site plans showing the location of the transit stops within the overall LEED campus boundary have been provided. Additionally, a campus transit maps and bus schedules have been provided.</p> <p>However, the submitted documentation does not demonstrate that each building's main entrance meets the required one-quarter mile walking distance, as required. It is noted that that the submitted site plan depicts a quarter mile radius around each transit stop, but a one-quarter mile radius is not applicable to this credit.</p> <p>TECHNICAL ADVICE:</p> <p>Please provide revised scaled drawings showing the pedestrian route (the length of the walkable pathway between the building and public transportation) from each building's main entrance to each of the transit stops. The pedestrian route must be less than one-quarter mile in order to meet credit requirements. Each individual building LEED project must be served by at least two campus or public bus lines within one-quarter mile walking distance of each building's main entrance.</p> | | | | | | |
| 08/24/2013 DESIGN AND CONSTRUCTION FINAL REVIEW | | | | | | |
| <p>The LEED Credit Form has been revised and a narrative has been provided to address the issues outlined in the Preliminary Review comments, stating that the Master Site complies with Option 2 and is served by eleven campus or public bus lines within one quarter mile walking distance of each building's main entrance. A LEED Campus Boundary Map and maps depicting bus routes and schedules have been provided. Additionally, scaled maps showing the location of each of the three buildings pursuing LEED certification and pedestrian route to the transit stops have been provided.</p> <p>However, it is not clear that all "future LEED NC projects linked to this UCSC NC master site" (as noted in the Pf4: Schedule and Overview Documents narrative) would be within the required one quarter mile walking path for two bus routes. The documentation does not demonstrate credit compliance.</p> | | | | | | |
| 10/31/2013 REVISED REVIEW COMMENT | | | | | | |
| <p>The LEED Credit Form has been revised and a narrative has been provided to address the issues outlined in the Preliminary Review comments, stating that the Master Site complies with Option 2 and is served by eleven campus or public bus lines within one quarter mile walking distance of each building's main entrance. A LEED Campus Boundary Map and maps depicting bus routes and schedules have been provided. Additionally, scaled maps showing the location of each of the three buildings pursuing LEED certification and pedestrian route to the transit stops have been provided.</p> <p>It is not clear that all "future LEED NC projects linked to this UCSC NC master site" (as noted in the Pf4: Schedule and Overview Documents narrative) would be within the required one quarter mile walking path for two bus routes. The documentation does not demonstrate credit compliance for the entire UCSC NC master site.</p> <p>Documentation has been provided for and demonstrates credit compliance for 1000028322 Merrill College Residence Halls A&B (Project No. 2635), 1000027683 UCSC Cogen Plant (Project No. 2113) and Hay Barn Restoration (Project No. 1326) which is not yet registered for LEED Certification.</p> | | | | | | |

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| SSc4.2: Alternative Transportation-Bicycle Storage and Changing Rooms | Not Attempted | 1 | | | | | |
| SSc4.3: Alternative Transportation-Low-Emitting and Fuel-Efficient Vehicles | Not Attempted | 3 | | | | | |
| SSc4.4: Alternative Transportation-Parking Capacity | Not Attempted | 2 | | | | | |
| SSc5.1: Site Development-Protect or Restore Habitat | Awarded | 1 | 1 | 0 | 0 | 1 | |
| 06/17/2013 DESIGN AND CONSTRUCTION PRELIMINARY REVIEW | | | | | | | |
| <p>The LEED Credit Form has been provided stating that prior to development of the LEED-NC projects, the site within the LEED campus boundary was previously developed and therefore the project applies Case 2. The combined projects have restored or protected 68,823,154 square feet using native or adapted vegetation which is equal to 80.68% of the total combined project site area excluding the LEED-NC building footprints. As the combined project site area excluding the total combined LEED-NC building footprints are greater, a minimum of 50% of the total site within the LEED campus boundary must be restored or protected. Site drawings highlighting the restored or protected areas within the LEED campus boundary and a narrative describing the utilized native/adapted plant species have been provided.</p> <p>-----</p> <p>The LEED Credit Form indicates that the project is pursuing the Exemplary Performance option for this credit and that the project reserves one point within the Innovation and Design Credit category for this strategy.</p> | | | | | | | |
| SSc5.2: Site Development-Maximize Open Space | Awarded | 1 | 1 | 0 | 0 | 1 | |
| 06/17/2013 DESIGN AND CONSTRUCTION PRELIMINARY REVIEW | | | | | | | |
| <p>The LEED Credit Form has been provided stating that the project site within the LEED campus boundary does not have local zoning regulations; therefore, the project complies with Case 2. 79,530,735 square feet of open space has been provided within the LEED campus boundary which is more than the total combined footprint of the LEED-NC buildings (1,846,211 square feet). Additionally, 100% of this dedicated open space is vegetated. The calculations do not include wetlands or naturally designed ponds. The project Owner has signed the form as required. Site plans highlighting the dedicated open space within the LEED campus boundary have been provided.</p> <p>-----</p> <p>The LEED Credit Form indicates that the project is pursuing the Exemplary Performance option for this credit and that the project reserves one point within the Innovation and Design Credit category for this strategy.</p> | | | | | | | |
| SSc6.1: Stormwater Design-Quantity Control | Not Attempted | 1 | | | | | |
| SSc6.2: Stormwater Design-Quality Control | Not Attempted | 1 | | | | | |
| SSc7.1: Heat Island Effect, Non-Roof | Not Attempted | 1 | | | | | |
| SSc7.2: Heat Island Effect-Roof | Not Attempted | 1 | | | | | |
| SSc8: Light Pollution Reduction | Not Attempted | 1 | | | | | |

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|  | Water Efficiency | 10 | 0 | 0 | 0 | 0 |
|---|-------------------------|----|---|---|---|---|

| | | | | | | |
|---|------------------------------|----|---|---|---|---|
|  | Energy and Atmosphere | 35 | 0 | 0 | 0 | 0 |
|---|------------------------------|----|---|---|---|---|

**Materials and Resources**

14

0

0

0

0

MRp1: Storage and Collection of Recyclables**Awarded****06/24/2013 DESIGN AND CONSTRUCTION PRELIMINARY REVIEW**

The LEED Prerequisite Form has been provided stating that the project has provided appropriately sized dedicated areas for the collection and storage of materials for recycling, including cardboard, paper, plastic, glass, and metals. A narrative describing the campus recycling policy has been provided. Additionally, copies of the UCSC Recycling and Disposal Guide and Solid Waste Management Policy have been provided.

However, two issues are pending:

1. The submitted narrative does not describe the size, accessibility, and expected volume and pick-up frequencies, as required.
2. Drawings (floor plans and/or site plans) showing the location of the recycling storage areas within the LEED-NC projects have not been provided.


TECHNICAL ADVICE:

1. Please provide a revised narrative which confirms that the recycling areas are adequately sized and located by describing the expected volume generated by the LEED-NC occupants and the pick-up frequencies.
2. Provide drawings confirming the locations of the recycling areas for each LEED building. Note that a central collection area designed to consolidate a project's recyclables meets the prerequisite requirements as long as the intent of the prerequisite and the recycling needs of the occupants are met. For projects with a larger site area, it may be possible to create a central collection area that is outside the LEED project boundary or LEED campus boundary. In this case, document how the recyclable materials will be transported to the separate collection area.

08/19/2013 DESIGN AND CONSTRUCTION FINAL REVIEW

The LEED Prerequisite Form has been revised and a detailed narrative has been provided to address the issues outlined in the Preliminary Review comments, describing the campus recycling program. Additionally, copies of area maps depicting campus recycling locations and description of the UCSC Physical Plant recycling program have been provided. The documentation demonstrates prerequisite compliance.


MRc1.1: Building Reuse-Maintain Existing Walls, Floors and Roof**Not Attempted****3****MRc1.2: Building Reuse, Maintain 50% of Interior****Not Attempted****1****MRc2: Construction Waste Management****Not Attempted****2****MRc3: Materials Reuse****Not Attempted****2****MRc4: Recycled Content****Not Attempted****2****MRc5: Regional Materials****Not Attempted****2****MRc6: Rapidly Renewable Materials****Not Attempted****1****MRc7: Certified Wood****Not Attempted****1**

|  Indoor Environmental Quality | | 15 | 2 | 0 | 0 | 2 |
|---|----------------------|----|---|---|---|---|
| IEQp1: Minimum Indoor Air Quality Performance | Denied | | | | | |
| IEQp2: Environmental Tobacco Smoke (ETS) Control | Awarded | | | | | |
| 06/17/2013 DESIGN AND CONSTRUCTION PRELIMINARY REVIEW | | | | | | |
| <p>The LEED Prerequisite Form has been provided stating that the LEED projects minimize exposure to ETS-containing air by prohibiting smoking within 25 feet of all entries, outdoor air intakes, and operable windows. Additionally, smoking is prohibited within the buildings. Photographs confirming the signage system communicating the exterior smoking policy have been provided. Additionally, a copy of the UCSC Smoking Policy has been provided.</p> <p>However, P1f3: Occupant and Usage Data has been denied pending clarifications due to issues with the usage data for each building within the LEED campus boundary; therefore, it is unclear if the Master Site includes any residential units (Residence Halls) and how the non-smoking status of these building types will be communicated and enforced.</p> <p>TECHNICAL ADVICE:</p> <p>Please see the comments within P1f3. If the Master Site includes projects with residential units, revise the LEED Prerequisite Form Interior Smoking Policy section to indicate (check box) that the Master Site includes residential projects. Provide a narrative describing the non-smoking policy for projects within the Master Site that contain residential units. Include specific information about how the policy will be communicated and enforced in residential units. Additionally, upload a copy of the non-smoking policy or letter signed by the project Owner describing the non-smoking policy and enforcement of the Master Site projects and/or provide a copy of legally-binding covenants/restrictions to verify the status of the residential units as non-smoking.</p> | | | | | | |
| 08/19/2013 DESIGN AND CONSTRUCTION FINAL REVIEW | | | | | | |
| <p>The LEED Prerequisite Form has been provided to address the issues outlined in the Preliminary Review comments, stating that the Master Site includes residential projects. A narrative has been provided describing the non-smoking policy for projects within the Master Site that contain residential units, including specific information about how the policy will be communicated and enforced in residential units. Additionally, a copy of the non-smoking policy has been provided. The documentation demonstrates prerequisite compliance.</p> | | | | | | |
| IEQc1: Outdoor Air Delivery Monitoring | Not Attempted | 1 | | | | |
| IEQc2: Increased Ventilation | Not Attempted | 1 | | | | |
| IEQc3.1: Construction IAQ Management Plan-During Construction | Not Attempted | 1 | | | | |
| IEQc3.2: Construction IAQ Management Plan-Before Occupancy | Not Attempted | 1 | | | | |
| IEQc4.1: Low-Emitting Materials-Adhesives and Sealants | Awarded | 1 | 1 | 0 | 0 | 1 |
| 06/17/2013 DESIGN AND CONSTRUCTION PRELIMINARY REVIEW | | | | | | |
| <p>The LEED Credit Form has been provided stating that the project team is using an alternative compliance approach in lieu of standard submittal paths. A narrative has been provided stating that all UCSC projects must comply with the California Green Building Code (effective January 1, 2011); also known as CAL Green and Chapter 11 of the California Building Code which is overseen by the California Building Standards Commission. The requirements for CALGreen Sections 5.504.4.1 and 4.504.2.1, list standards and VOC limits that are equal to or more stringent than those listed in IEQc4.1. Additionally, copies of the CALGreen Building Code have been provided.</p> | | | | | | |
| IEQc4.2: Low-Emitting Materials-Paints and Coatings | Awarded | 1 | 1 | 0 | 0 | 1 |

06/17/2013 DESIGN AND CONSTRUCTION PRELIMINARY REVIEW

The LEED Credit Form has been provided stating that the project team is using an alternative compliance approach in lieu of standard submittal paths. A narrative has been provided stating that all UCSC projects must comply with the California Green Building Code (effective January 1, 2011); also known as CAL Green and Chapter 11 of the California Building Code which is overseen by the California Building Standards Commission. The requirements for CALGreen Sections 5.504.4.3 and 4.504.2.2, list standards and VOC limits that are equal to or more stringent than those listed in IEQc4.2. Additionally, copies of the CALGreen Building Code have been provided.


| | | |
|---|---------------|---|
| IEQc4.3: Low-Emitting Materials-Flooring Systems | Not Attempted | 1 |
| IEQc4.4: Low-Emitting Materials-Composite Wood and Agrifiber Products | Not Attempted | 1 |
| IEQc5: Indoor Chemical and Pollutant Source Control | Not Attempted | 1 |
| IEQc6.1: Controllability of Systems-Lighting | Not Attempted | 1 |
| IEQc6.2: Controllability of Systems-Thermal Comfort | Not Attempted | 1 |
| IEQc7.1: Thermal Comfort-Design | Not Attempted | 1 |
| IEQc7.2: Thermal Comfort-Verification | Not Attempted | 1 |
| IEQc8.1: Daylight and Views-Daylight | Not Attempted | 1 |
| IEQc8.2: Daylight and Views-Views | Not Attempted | 1 |

| | | | | | | |
|--|----------------------|----------|----------|----------|----------|----------|
|  Innovation in Design | | 6 | 4 | 0 | 0 | 4 |
| IDc1.1: Innovation in Design | Awarded | 1 | 1 | 0 | 0 | 1 |
| <p>06/17/2013 DESIGN AND CONSTRUCTION PRELIMINARY REVIEW</p> <p>The LEED Credit Form has been submitted stating that the project team has developed and implemented a Green Housekeeping program for all LEED projects within the Master Site. To receive an innovation point, the project team must demonstrate compliance with LEED-EBOM 2009 IEQp3: Green Cleaning Policy. A copy of the Green Cleaning Policy has been provided. The Green Cleaning Policy follows the LEED-EBOM Policy Model and demonstrates the development of a comprehensive and quantitative green cleaning program which includes detailed information regarding staff training, cleaning processes and chemicals, and occupant feedback.</p> <p>It is noted that a copy of the LEED-EBOM 2009 IEQp3 Prerequisite Form has not been provided; however, the submitted documentation demonstrates compliance. For future submittals, please ensure that a completed copy of the LEED-EBOM 2009 form has been provided.</p> | | | | | | |
| IDc1.1: Innovation in Design | Not Attempted | 1 | | | | |
| IDc1.2: Innovation in Design | Not Attempted | 1 | | | | |
| IDc1.2: Innovation in Design | Awarded | 1 | 1 | 0 | 0 | 1 |
| <p>06/17/2013 DESIGN AND CONSTRUCTION PRELIMINARY REVIEW</p> <p>The LEED Credit Form has been submitted stating that the Master Site achieves exemplary performance for SSc5.1: Site Development - Protect or Restore Habitat as specified in the LEED Reference Guide for Green Building Design and Construction, 2009 Edition. The requirement for exemplary performance in SSc5.1 is 75%. The project team has provided documentation demonstrating that the combined projects have restored or protected 68,823,154 square feet using native or adapted vegetation which is equal to 80.68% of the total combined project site area excluding the LEED-NC building footprints, which meets the exemplary performance requirement.</p> | | | | | | |
| IDc1.3: Innovation in Design | Awarded | 1 | 1 | 0 | 0 | 1 |
| <p>06/17/2013 DESIGN AND CONSTRUCTION PRELIMINARY REVIEW</p> <p>The LEED Credit Form has been submitted stating that the Master Site achieves exemplary performance for SSc5.2: Site Development - Maximize Open Space as specified in the LEED Reference Guide for Green Building Design and Construction, 2009 Edition. The requirement for exemplary performance in SSc5.2 is to provide vegetated open space within the LEED campus boundary that is twice the area of the total combined footprint of the LEED-NC buildings. The project team has provided documentation demonstrating that 79,530,735 square feet of open space has been provided within the LEED campus boundary which is more than twice the total combined footprint of the LEED-NC buildings (1,846,211 square feet), which meets the exemplary performance requirement.</p> | | | | | | |
| IDc1.3: Innovation in Design | Not Attempted | 1 | | | | |
| IDc1.4: Innovation in Design | Not Attempted | 1 | | | | |
| IDc1.4: Innovation in Design | Not Attempted | 1 | | | | |
| IDc1.5: Innovation in Design | Awarded | 1 | 1 | 0 | 0 | 1 |
| <p>06/17/2013 DESIGN AND CONSTRUCTION PRELIMINARY REVIEW</p> <p>The LEED Credit Form has been submitted stating that the project has developed and implemented an ID credit proposal in compliance with LEED-EBOM MRp1: Sustainable Purchasing Policy. A copy of the policy has been provided. The policy addresses MR Credits 1 and 2.</p> | | | | | | |

It is noted that a copy of the LEED-EBOM 2009 MRp1 Prerequisite Form has not been provided; however, the submitted documentation demonstrates compliance. For future submittals, please ensure that a completed copy of the LEED-EBOM 2009 form has been provided.

Credit

| | STATUS | POINTS: | ATTEMPTED | DENIED | PENDING | AWARDED |
|-------------------------------------|----------------------|----------|-----------|--------|---------|---------|
| | | POSSIBLE | | | | |
| Attempted | | | | | | |
| IDc2: LEED® Accredited Professional | Not Attempted | 1 | | | | |

| | | | |
|--|----------|----------|----------|
|  Regional priority | 4 | 1 | 1 |
| SSc4.1: Alternative Transportation-Public Transportation Access | 1 | 1 | 1 |

| | | | | | |
|--------------|------------|-----------|----------|----------|-----------|
| TOTAL | 110 | 15 | 0 | 0 | 15 |
|--------------|------------|-----------|----------|----------|-----------|

REVIEW SUMMARY

Review

POINTS:

SUBMITTED RETURNED SUBMITTED DENIED PENDING AWARDED

| | SUBMITTED | RETURNED | SUBMITTED | DENIED | PENDING | AWARDED |
|-------------------------------------|------------|------------|-----------|--------|---------|---------|
| Design and Construction Preliminary | 06/05/2013 | 06/24/2013 | 19 | 0 | 11 | 8 |

| | | | | | | |
|-------------------------------|------------|------------|---|---|---|---|
| Design and Construction Final | 08/08/2013 | 09/09/2013 | 7 | 7 | 0 | 0 |
|-------------------------------|------------|------------|---|---|---|---|