



Version 2

How to Interpret this Report

- Purpose** The Leadership in Energy and Environmental Design (LEED) Rating System was designed by the US Green Building Council to encourage and facilitate the development of more sustainable buildings. The Varsity Village project was evaluated according to this system and the Preliminary Rating is totaled below.
- Environmental Categories** The report is organized into five environmental categories as defined by LEED including: Sustainable Sites, Water Efficiency, Energy and Atmosphere, Materials and Resources and Indoor Environmental Quality. The category of Innovation and Design Process is also included.
- LEED Prerequisite** Prerequisites must be achieved. These prerequisites should be addressed immediately by the team, as they are mandatory.
- LEED Credits** The environmental categories are subdivided into the established LEED credits, which are based on desired performance goals within each category. An assessment of whether the credit is earned, pending, or rejected is made and a narrative describes the basis for the assessment.
- Anticipated** The applicant has provided the mandatory documentation which supports achievement of the credit requirements and associated points. For Version 2.0 the documentation of these credits is complete, and the points are considered achieved. For Version 2.1, the completed Letter Template and associated information has been provided, and achievement of the points is anticipated. Version 2.1 credits in this category are designated as 'CAA' for credit achievement anticipated. In Version 2.1 these points may be selected for a second audit if the applicant fails to successfully demonstrate achievement for two or more Preliminary LEED Review audited credits..
- 21**
- Pending** The applicant has not totally satisfied the mandatory documentation, or the documentation is incomplete and point assessment cannot yet be made. Currently the project has the potential to score the adjacent points in this category with additional documentation. Audited points in Version 2.1 are also counted in this category and are designated by the word 'Audited' under the point
- 15**
- Rejected** The applicant has applied for a point in a particular credit, but has misinterpreted the credit intent or cannot substantiate meeting the requirements. The project has not demonstrated achievement of these credits.
- Rating** **Preliminary Rating is Not Certified**
- Official LEED v2 Scores: Certified: 26-32 Silver Rating: 33-38 Gold Rating: 39-51 Platinum Rating: 52 +

A - Anticipated
P - Pending
R - Rejected

A	P	R		Possible Points
5	3		Sustainable Sites	14

0 **Erosion & Sedimentation Control** Prerequisite 1- V 2.1
CAA Review: The signed LEED Letter Template states that the local Best Management Practices meet or exceed the EPA BMPs. Measures include dust control, silt fences, soil retaining measures, sediment basins, and storm drain inlet protection.

1 **Site Selection** Credit 1- V 2.1
CAA Review: The signed LEED Letter Template declares that the site does not meet any of the prohibited criteria.

1 **Urban Redevelopment** Credit 2- V 2.1
CAA Review: The signed LEED Letter Template indicates that the 60,507 sf/acre project is located in an area with a development density of 61,968.7 sf/acre. An area plan is included indicating all properties used in the calculation.

Not Attempting **Brownfield Redevelopment** Credit 3- V 2.1
Review: No Comments.

1 **Alternative Transportation, Public Transportation Access** Credit 4.1- V 2.1
CAA Review: The signed LEED Letter Template states that there are 3 bus lines within 1/4 mile of the project site. A scaled site map has been provided.

1 **Alternative Transportation, Bicycle Storage & Changing Rooms** Credit 4.2- V 2.1
Review: The signed LEED Letter Template declares that 32 bicycle stalls are provided for 470 occupants. The Letter Template does not indicate the number of showers required but calculations require four. A site plan shows the location of the bicycle racks along with the general location of the showers. However, it is unclear if the facility has the required number of showers within 200 yards of the project.

TECHNICAL ADVICE: Please provide floor plans to clarify that there are at least four showers at the location indicated on the site plan. Also provide a narrative describing the access of staff and students to the showers.

Requirements For commercial or institutional buildings, provide secure bicycle storage with convenient changing/shower facilities (within 200 yards of the building) for 5% or more of regular building occupants. For residential buildings, provide covered storage facilities for securing bicycles for 15% or more of building occupants in lieu of changing/shower facilities.

Submittals For commercial projects: provide the LEED Letter Template, signed by the Architect or responsible party, declaring the distance to bicycle storage and showers from the building entrance and demonstrating that these facilities can accommodate at least 5% of building occupants.

A - Anticipated
P - Pending
R - Rejected

A	P	R
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Alternative Transportation, Alternative Fuel Refueling Stations

Credit 4.3- V 2.1

Review: The signed LEED Letter Template declares that six alternative fuel refueling stations are provided for 3.97% of the vehicle parking capacity on the site. A parking plan is included highlighting the location of the alternative fuel refueling stations, but no specifications are included to specify the type of refueling station.

TECHNICAL ADVICE: Please provide specifications indicating the type of refueling station. If electrical refueling stations are used, standard electrical receptacles (120 volt) are not acceptable unless Level I EVs are used. See SSc4.3 CIR Rulings dated 9/20/04 and 2/2/04 for more information.

Requirements Provide alternative fuel vehicles for 3% of building occupants AND provide preferred parking for these vehicles, OR install alternative-fuel refueling stations for 3% of the total vehicle parking capacity of the site. Liquid or gaseous fueling facilities must be separately ventilated or located outdoors.

Submittals Provide the LEED Letter Template and proof of ownership of, or 2 year lease agreement for, alternative fuel vehicles and calculations indicating that alternative fuel vehicles will serve 3% of building occupants. Provide site drawings or parking plan highlighting preferred parking for alternative fuel vehicles. OR Provide the LEED Letter Template with specifications and site drawings highlighting alternative fuel refueling stations. Provide calculations demonstrating that these facilities accommodate 3% or more of the total vehicle parking capacity.

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Alternative Transportation, Parking Capacity

Credit 4.4- V 2.1

Review: The signed LEED Letter Template declares that the parking for the project does not exceed minimum zoning requirements and 12 preferred carpool parking spaces are provided for 5.11% of building occupants. No additional documentation has been provided as required by the Letter Template.

TECHNICAL ADVICE: Please provide a narrative and/or documentation describing the local zoning requirements for parking. Please provide calculations which illustrate the required parking capacity for the project. Provide a carpooling plan/policy and documentation of how the spaces are designated as reserved for carpooling (photos, signage).

Requirements Size parking capacity to meet, but not exceed, minimum local zoning requirements AND provide preferred parking for carpools or vanpools capable of serving 5% of the building occupants; OR add no new parking for rehabilitation projects AND provide preferred parking for carpools or vanpools capable of serving 5% of the building occupants.

Submittals For new projects: provide the LEED Letter Template, signed by the Civil Engineer or responsible party, stating any relevant minimum zoning requirements and declaring that parking capacity is sized to meet, but not exceed them. State the number of preferred parking spaces for carpools.

OR For rehabilitation projects: provide the LEED Letter Template, signed by the civil engineer or responsible party, declaring that no new parking capacity has been added. State the number of preferred parking spaces for carpools.

Not Attempting

Reduced Site Disturbance, Protect or Restore Open Space

Credit 5.1- V 2.1

Review: No Comments.

Not Attempting

Reduced Site Disturbance, Development Footprint

Credit 5.2- V 2.1

Review: No Comments.

1	<input type="checkbox"/>	<input type="checkbox"/>
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CAA

Stormwater Management, Rate and Quantity

Credit 6.1- V 2.1

Review: The signed LEED Letter Template declares that the post-development 1.5 year, 24 hour peak discharge rate and quantity do not exceed pre-development conditions. Supporting calculations and/or a narrative have been provided.

A - Anticipated
P - Pending
R - Rejected

A	P	R		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Stormwater Management, Treatment	Credit 6.2- V 2.1
Review: No Comments.				
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Landscape & Exterior Design to Reduce Heat Islands, Non-Roof Surfaces	Credit 7.1- V 2.1
1			Review: The signed LEED Letter Template has been provided declaring that a minimum of 50% of parking spaces have been placed underground or covered by a structure. Plans are included to demonstrate credit compliance.	
	CAA			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Landscape & Exterior Design to Reduce Heat Islands, Roof Surfaces	Credit 7.2- V 2.1
Review: No Comments.				
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Light Pollution Reduction	Credit 8- V 2.1
Review: No Comments.				

A - Anticipated
P - Pending
R - Rejected

A	P	R	2	Water Efficiency	Possible Points 5
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	1		Water Efficient Landscaping, Reduce by 50%	Credit 1.1- V 2.1
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Review: A signed LEED Letter Template is provided declaring that potable water consumption for irrigation has been reduced by 50% through the use of captured rain or recycled water. However, as required by the Letter Template, a narrative of equipment used and/or a list of native plant species has not been provided.

TECHNICAL ADVICE: Please provide an irrigation plan and legend, as well as calculations, a description of the baseline, and cut sheets of the irrigation system demonstrating how water consumption is reduced by 50%.

Requirements Use high-efficiency irrigation technology OR use captured rain or recycled site water to reduce potable water consumption for irrigation by 50% over conventional means.

Submittals Provide the LEED Letter Template, signed by the architect, engineer or responsible party, declaring that the potable water consumption for site irrigation has been reduced by 50%. Include a brief narrative of the equipment used and/or the use of drought-tolerant or native plants.

Not Attempting			Water Efficient Landscaping, No Potable Use or No Irrigation	Credit 1.2- V 2.1
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Review: No Comments.

Not Attempting			Innovative Wastewater Technologies	Credit 2- V 2.1
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Review: No Comments.

	1		Water Use Reduction, 20% Reduction	Credit 3.1- V 2.1
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Review: The signed LEED Letter Template and calculations have been provided demonstrating that water use has been reduced by 22.29% through the use of lavatories with aerators. The total occupant number does not match the FTE used for other credits, and the restaurant GPD figure is not explained.

TECHNICAL ADVICE: Please provide an FTE calculation for the project which breaks out the staff, student and other facility users along with a narrative which describes the number of occupant users for each flow and flush fixture type. Please also provide an explanation for the Restaurant GPD line item. Regulated restaurant usage would include all restroom usage and kitchen sinks. All other water usage is considered process water and should not be included under WEc3. Water coolers and janitors' sinks should also be removed from the calculations. Please provide revised calculations.

Requirements Employ strategies that in aggregate use 20% less water than the water use baseline calculated for the building (not including irrigation) after meeting the Energy Policy Act of 1992 fixture performance requirements.

Submittals Provide the LEED Letter Template, signed by the MEP engineer or responsible party, declaring that the project uses 20% less water than the baseline fixture performance requirements of the Energy Policy Act of 1992. Provide the spreadsheet calculation demonstrating that the water consuming fixtures specified for the stated occupancy and use of the building reduce occupancy based potable water consumption by 20% compared to baseline conditions.

Not Attempting			Water Use Reduction, 30% Reduction	Credit 3.2- V 2.1
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Review: No Comments.

A - Anticipated
P - Pending
R - Rejected

A	P	R	
1	7		Energy & Atmosphere Possible Points 17

0			Fundamental Building Systems Commissioning Prerequisite 1- V 2.1
CAA			
Review: The signed LEED Letter Template declares that the required commissioning activities have been completed or are under contract.			

0			Minimum Energy Performance Prerequisite 2- V 2.1
CAA			
Review: The signed LEED Letter Template declares that the project complies with ASHRAE 90.1-1999.			

0			CFC Reduction in HVAC&R Equipment Prerequisite 3- V 2.1
CAA			
Review: The signed LEED Letter Template declares that the project's HVAC&R systems do not contain CFC-based refrigerants.			

A - Anticipated
P - Pending
R - Rejected

A	P	R
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Optimize Energy Performance, 20% New /10% Existing

Credit 1.1- V 2.1

Review: The signed LEED Letter Template, summary tables, and energy modeling output demonstrate a 38% savings between the design case and the budget case based on ASHRAE 90.1-1999. Energy efficiency measures include an improved thermal envelope, premium efficiency motors, reduced lighting power density, occupancy sensors, and a CHP central plant. Some issues must be addressed for the final review.

TECHNICAL ADVICE:

1. ASHRAE 90.1-1999 requires that the models do not vary by more than 50 hours of unmet load hours. The budget building contains 201 hours outside throttling range while the proposed building has 105 hours. Please provide revised modeling results.
2. Service hot water is a regulated component and must be included in the models.
3. The chilled water and hot water pumps are regulated components and must be included in the models.
4. Please provide summary information to justify the 58% savings in lighting. A review of the provided LPD values show that many areas exceed the budget building and most do not show a 50% or greater reduction. Also some areas in the proposed building have a 0 LPD (staff lounge, next to 379h, gift shop, atrium/museum, and south atrium). Please provide justification for the absence of lighting in these areas.
5. Occupancy sensor savings are based on a schedule change. Using this method requires that the measure be treated as an exception calculation under Section 11.5 of 90.1. This requires a separate modeling run for this measure with the savings subtracted from the DEC on the ECB Table. An alternative would be to take a credit on the LPD in the areas with sensors. See the CIRs for more information.
6. The project has attempted to garner additional savings for an energy efficient central plant. The methodology used cites a Cogeneration Energy Cost credit in the campus application guide. This guidance is not found in the final version of the Campus AG and may have been contained in an earlier version. In any case, the correct methodology for claiming savings is contained in the document - CHP Calculation Methodology for LEED-NC v2.0/v2.1 EA Credit 1 - which can be found on the USGBC web site: <http://www.usgbc.org/ShowFile.aspx?DocumentID=1384>. Please follow the methodology in this document and provide revised energy modeling results.

Requirements Reduce design energy cost compared to the energy cost budget for energy systems regulated by ASHRAE/IESNA Standard 90.1-1999 (without amendments), as demonstrated by a whole building simulation using the Energy Cost Budget Method described in Section 11 of the Standard.

New Bldgs.	Existing Bldgs.	Points
<input type="checkbox"/>		
15%	5%	1
20%	10%	2
25%	15%	3
30%	20%	4
35%	25%	5
40%	30%	6
45%	35%	7
50%	40%	8
55%	45%	9
60%	50%	10

Regulated energy systems include HVAC (heating, cooling, fans and pumps), service hot water and interior lighting. Non-regulated systems include plug loads, exterior lighting, garage ventilation and elevators (vertical transportation). Two methods may be used to separate energy

A - Anticipated
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A P R

consumption for regulated systems. The energy consumption for each fuel may be prorated according to the fraction of energy used by regulated and non-regulated energy.

Alternatively, separate meters (accounting) may be created in the energy simulation program for regulated and non-regulated energy uses. If an analysis has been made comparing the proposed design to local energy standards and a defensible equivalency (at minimum) to ASHRAE/IESNA Standard 90.1-1999 has been established, then the comparison against the local code may be used in lieu of the ASHRAE Standard. Project teams are encouraged to apply for innovation credits if the energy consumption of non-regulated systems is also reduced.

Submittals Complete the LEED Letter Template incorporating a quantitative summary table showing the energy saving strategies incorporated in the building design. Demonstrate via summary printout from energy simulation software that the design energy cost is less than the energy cost budget as defined in ASHRAE/IESNA 90.1-1999, Section 11.

2 **Optimize Energy Performance, 30% New /20% Existing** Credit 1.2- V 2.1

Review: See EAc1.1.

TECHNICAL ADVICE: See EAc1.1.

Requirements See Credit 1.1.

Submittals Same as Credit 1.1.

2 **Optimize Energy Performance, 40% New /30% Existing** Credit 1.3- V 2.1

Review: See EAc1.1.

TECHNICAL ADVICE: See EAc1.1.

Requirements See Credit 1.1.

Submittals Same as Credit 1.1.

Not Attempting **Optimize Energy Performance, 50% New /40% Existing** Credit 1.4- V 2.1

Review: No Comments.

Not Attempting **Optimize Energy Performance, 60% New /50% Existing** Credit 1.5- V 2.1

Review: No Comments.

Not Attempting **Renewable Energy, 5% Contribution** Credit 2.1- V 2.1

Review: No Comments.

Not Attempting **Renewable Energy, 10% Contribution** Credit 2.2- V 2.1

Review: No Comments.

Not Attempting **Renewable Energy, 20% Contribution** Credit 2.3- V 2.1

Review: No Comments.

1 **Additional Commissioning** Credit 3- V 2.1

CAA

Review: The signed LEED Letter Template declares that the required commissioning activities have been completed or are under contract.

Not Attempting **Ozone Protection** Credit 4- V 2.1

Review: No Comments.

A - Anticipated
P - Pending
R - Rejected

A	P	R
	1	

Measurement & Verification

Credit 5- V 2.1

Review: The signed LEED Letter Template declares that metering equipment has been installed for all appropriate systems. An M&V Plan, following Option B, has also been provided. It is not clear why Option B was selected since this is typically applicable to a small number of easily isolated measures. Option C or D appears to be a better means of M&V of this project. The Plan contains a detailed description of the sub-metering and monitoring of many building components. The Plan does not address the establishment of a baseline, how the data will be used as part of the M&V effort, the verification of savings, reconciliation with the utility bills, reporting or an action plan in the event the savings do not materialize. The M&V plan also does not contain many of the requirements as noted on page of 176 of the LEED-NC v2.1 Reference Guide.

TECHNICAL ADVICE: Please provide a revised M&V Plan which adequately and thoroughly addresses one of the Options in the IPMVP.

Requirements Install continuous metering equipment for the following end-uses: Lighting systems and controls Constant and variable motor loads Variable frequency drive (VFD) operation Chiller efficiency at variable loads (kW/ton) Cooling load Air and water economizer and heat recovery cycles Air distribution static pressures and ventilation air volumes Boiler efficiencies Building-related process energy systems and equipment Indoor water risers and outdoor irrigation systems Develop a Measurement and Verification plan that incorporates the monitoring information from the above end-uses and is consistent with Option B, C or D of the 2001 International Performance Measurement & Verification Protocol (IPMVP) Volume I: Concepts and Options for Determining Energy and Water Savings.

Submittals Provide the LEED Letter Template, signed by the licensed engineer or other responsible party, indicating that metering equipment has been installed for each end-use and declaring the option to be followed under IPMVP version 2001. Provide a copy of the M&V plan following IPMVP, 2001 version, including an executive summary.

Not Attempting

Green Power

Credit 6- V 2.1

Review: No Comments.

A - Anticipated
P - Pending
R - Rejected

A	P	R		Possible Points
6	0		Materials & Resources	13

	0		Storage & Collection of Recyclables	Prerequisite 1- V 2.1
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Review: The signed LEED Letter Template indicates that appropriate facilities for recycling have been provided. Floor plans locating the recycling area are also provided. The plans only indicate one recycling container per floor. It is unclear how one container will provide the necessary storage for all the required materials to be recycled.

TECHNICAL ADVICE: Please provide documentation demonstrating that the recycling areas indicated on the provided plan are appropriately sized to accommodate the recycling material volumes generated by building occupants. Also provide a narrative explaining the recycling program including what recyclables are collected in each location, how recyclables are collected in offices and other spaces throughout the project, and how those collected recyclables are managed in the facility. Be sure to address all required materials in the narrative.

Requirements Provide an easily accessible area that serves the entire building and is dedicated to the separation, collection and storage of materials for recycling including (at a minimum) paper, corrugated cardboard, glass, plastics and metals.

Submittals Provide the LEED Letter Template, signed by the architect or owner, declaring that the area dedicated to recycling is easily accessible and accommodates the building's recycling needs. □□ Provide a plan showing the area(s) dedicated to recycled material collection and storage.

Not Attempting			Building Reuse, Maintain 75% of Existing Shell	Credit 1.1- V 2.1
			Review: No Comments.	

Not Attempting			Building Reuse, Maintain 100% of Shell	Credit 1.2- V 2.1
			Review: No Comments.	

Not Attempting			Building Reuse, Maintain 100% Shell and 50% Non-Shell	Credit 1.3- V 2.1
			Review: No Comments.	

1			Construction Waste Management, Divert 50%	Credit 2.1- V 2.1
	CAA		Review: A signed LEED Letter Template declares that 87.50% of project construction waste was diverted from the landfill. A list of materials and where they were diverted has been included.	

1			Construction Waste Management, Divert 75%	Credit 2.2- V 2.1
	CAA		Review: See MRc2.1.	

Not Attempting			Resource Reuse, Specify 5%	Credit 3.1- V 2.1
			Review: No Comments.	

Not Attempting			Resource Reuse, Specify 10%	Credit 3.2- V 2.1
			Review: No Comments.	

A - Anticipated
P - Pending
R - Rejected

A	P	R		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	Recycled Content, Specify 5% Credit 4.1- V 2.1
	CAA			Review: The signed LEED Letter Template and supporting calculations have been provided declaring that the project has achieved a combined recycled content value of 35.17% of the total materials by cost. There are several inconsistencies in the calculations, including having products with over 100% combined recycled content. Despite these inconsistencies, the project will achieve at least 15% combined recycled content value.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	Recycled Content, Specify 10% Credit 4.2- V 2.1
	CAA			Review: See MRc4.1.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	Local/Regional Materials, 20% Manufactured Regionally Credit 5.1- V 2.1
	CAA			Review: The signed LEED Letter Template and supporting calculations have been provided declaring that 74.77% of the total project's materials by cost were manufactured within 500 miles of the project site.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	Local/Regional Materials, 50% Extracted Regionally Credit 5.2- V 2.1
	CAA			Review: The signed LEED Letter Template refers to attached calculations that indicate 19.2% of the total project's materials by cost were manufactured using raw materials harvested within 500 miles of the project site.
<input type="checkbox"/>	Not Attempting	<input type="checkbox"/>		Rapidly Renewable Materials Credit 6- V 2.1
				Review: No Comments.
<input type="checkbox"/>	Not Attempting	<input type="checkbox"/>		Certified Wood Credit 7- V 2.1
				Review: No Comments.

A - Anticipated
P - Pending
R - Rejected

A	P	R		Possible Points
6	1		Indoor Environmental Quality	15
0			Minimum IAQ Performance	Prerequisite 1- V 2.1
	CAA		Review: The signed LEED Letter Template has been provided stating that the requirements of ASHRAE 62-1999 have been met. Documentation showing the results of the ventilation rate procedure has been provided.	
0			Environmental Tobacco Smoke (ETS) Control	Prerequisite 2- V 2.1
	CAA		Review: The signed LEED Letter Template has been provided stating that no smoking is allowed in the building and outdoor smoking areas are located away from operable windows and entryways.	
1			Carbon Dioxide (CO2) Monitoring	Credit 1- V 2.1
	CAA		Review: The signed LEED Letter Template declares that a CO2 monitoring system has been installed. A narrative and calculations are provided indicating that the sensors are placed in each zone and in the outside air intake. The system is set with a differential of 530 ppm above ambient.	
Not Attempting			Increase Ventilation Effectiveness	Credit 2- V 2.1
			Review: No Comments.	
1			Construction IAQ Management Plan, During Construction	Credit 3.1- V 2.1
	CAA		Review: The signed LEED Letter Template has been provided stating that a construction IAQ plan was followed and implemented and that filters with a MERV 14 rating were installed after construction. A description of the SMACNA approaches followed was included.	
1			Construction IAQ Management Plan, Before Occupancy	Credit 3.2- V 2.1
	CAA		Review: A signed LEED Letter Template declares that a two week building flush out was conducted with 100% outside air from 5/2/06 - 5/16/06. A flush out plan is provided describing the use of MERV 14 filters, adjustments to the HVAC equipment to maintain maximum airflow through the building during flush out, and installation of new MERV 14 filters following flush out	
Not Attempting			Low-Emitting Materials, Adhesives & Sealants	Credit 4.1- V 2.1
			Review: No Comments.	
Not Attempting			Low-Emitting Materials, Paints	Credit 4.2- V 2.1
			Review: No Comments.	
1			Low-Emitting Materials, Carpet	Credit 4.3- V 2.1
	CAA		Review: A signed LEED Letter Template has been provided declaring that the project uses carpeting that complies with the CRI Green Label Program.	
Not Attempting			Low-Emitting Materials, Composite Wood	Credit 4.4- V 2.1
			Review: No Comments.	

A - Anticipated
P - Pending
R - Rejected

A **P** **R**
 Indoor Chemical and Pollutant Source Control Credit 5- V 2.1
CAA Review: The signed LEED Letter Template declares that the requirements of the credit have been met.

Not Attempting **Controllability of Systems, Perimeter** Credit 6.1- V 2.1
Review: No Comments.

Not Attempting **Controllability of Systems, Non-perimeter** Credit 6.2- V 2.1
Review: No Comments.

Thermal Comfort, Compliance with ASHRAE 55-1992 Credit 7.1- V 2.1
CAA Review: The signed LEED Letter Template declares that the project has been designed to maintain indoor comfort within the ranges established by ASHRAE 55-1992, Addenda 1995. Information on temperature and humidity control ranges has been provided.

Thermal Comfort, Permanent Monitoring System Credit 7.2- V 2.1
Audited Review: THIS CREDIT HAS BEEN SELECTED FOR AUDIT. The signed LEED Letter Template has been provided declaring that a permanent temperature and humidity monitoring system that operates during all seasons has been installed. The system is to permit control of individual building zones to maintain thermal comfort within the ranges defined in ASHRAE 55-1992, Addenda 1995. The Letter Template further declares that these systems were commissioned as part of the scope for EAp1, Fundamental Building Systems Commissioning.

TECHNICAL ADVICE: Please provide drawings, specifications and cut sheets highlighting the installed permanent temperature and humidity monitoring system. Include a narrative describing measurement points (trending or logging data) and operator interface. Also provide an excerpt from the commissioning specifications indicating that these controls are covered in the scope of work for EAp1.

Requirements Install a permanent temperature and humidity monitoring system configured to provide operators control over thermal comfort performance and the effectiveness of humidification and/or dehumidification systems in the building.

Submittals Provide the LEED Letter Template, signed by the engineer or responsible party, declaring that a permanent temperature and humidity monitoring system will operate throughout all seasons to permit control of the building zones within the seasonal thermal comfort ranges defined in ASHRAE 55-1992, Addenda 1995. Confirm that the temperature and humidity controls were (or will be) tested as part of the scope of work for Energy and Atmosphere Prerequisite 1, Fundamental Building Systems Commissioning. Include the document name and section number where the commissioning work is listed.

Not Attempting **Daylight and Views, Daylight 75% of Spaces** Credit 8.1- V 2.1
Review: No Comments.

Not Attempting **Daylight and Views, Views for 90% of Spaces** Credit 8.2- V 2.1
Review: No Comments.

A - Anticipated
P - Pending
R - Rejected

A	P	R		Possible Points
3	2		Innovation & Design Process	5
1			Exemplary Performance for MRc4	Credit 1.1- V 2.1
	CAA		Review: See MRc4.1.	
1			Exemplary Performance for MRc5.1	Credit 1.2- V 2.1
	CAA		Review: See MRc5.1.	
	1		Use of Non-polluting Saline Based Water Treatment	Credit 1.3- V 2.1
			Review: The signed LEED Letter Template states that a saline based water treatment system will be used in the hydrotherapy pools in lieu of chlorine/bromine. A narrative included states that the pools do not have to be drained for maintenance and the use of the saline is better for the patients. There are no calculations or documentation to show that the use of such a system provides a measurable environmental or health benefit. Insufficient information has been provided to evaluate credit achievement.	
			TECHNICAL ADVICE: The innovation credit must be structured properly with a credit intent, requirements, submittals and strategies. Please provide documentation to show that the use of such a system provides a measurable environmental or health benefit.	
			Requirements Same as Credit 1.1.	
			Submittals Provide the proposal(s) within the LEED Letter Template (including intent, requirement, submittals and possible strategies) and relevant evidence of performance achieved.	
	1		Green Building Education	Credit 1.4- V 2.1
			Review: The signed LEED Letter Template states that the implementation of tours, PowerPoint presentations and information boards have been established as part of the green education program. Insufficient information has been provided to evaluate credit achievement.	
			TECHNICAL ADVICE: Please provide additional information on the education program including copies of the presentations, written information on the content of the tours, and a list of tours given and planned.	
			Requirements Same as Credit 1.1.	
			Submittals Provide the proposal(s) within the LEED Letter Template (including intent, requirement, submittals and possible strategies) and relevant evidence of performance achieved.	
1			LEED™ Accredited Professional	Credit 2- V 2.1
	CAA		Review: The signed LEED Letter Template has been provided declaring that a LEED Accredited Professional has been a participant on the project development team. A copy of the LEED Accredited Professional Award Certificate for Bart Grunenwald has also been provided.	