



An occasional publication of sustainability information useful for your project work

## AEC Sustainability Team News Flash: April 2013

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The information presented is summary in nature, presented to alert you to new sustainability initiatives. For more information, or to contribute information, contact one of the AEC Sustainability Team Members: Ken Birringer, Larry Bowman, David Karle, Deanna Mabry, Michele Oliver, or Carol Simon.

### ASHRAE 90.1 2010 TO BE ADOPTED BY OCTOBER 28, 2013

ASHRAE 90.1-2010 is the most recent Energy Code released by the American Society of Heating, Refrigeration, and Air Conditioning Engineers and is likely to be adopted by the State of Michigan by October 28, 2013. This new version of the energy code is significantly more energy efficient than the previous 2007 code and consequently the requirements will be more rigorous.

Please note that should the State of Michigan adopt the new energy code, the University will likely follow suit. The AEC Sustainability Team will keep you informed on selected major revisions of the energy code through the News Flash. In the meantime, a side-by-side comparison of 90.1-2007 vs. 90.1-2010, prepared by the AEC Sustainability Team, may be viewed at the following location:

<S:\Sustainability\Energy Codes\ASHRAE 90.1\Energy Code 2007 vs 2010.pdf>

Also, the ASHRAE 90.1-2010 code is available for use on MADCAD.com. It is highly recommended that AEC become familiar with this new energy code.

### SUSTAINABILITY COORDINATOR

Reminder:

Michele Oliver is here to help you incorporate sustainability on projects. Through the monitoring of sustainability efforts on AEC projects she is able to make suggestions on how to include sustainable design concepts in projects and provide feedback to project teams. Please consider Michele to be your primary resource on AEC sustainability initiatives.

Also, keep Michele notified of sustainability measures implemented in your projects and invite her to be involved in AEC activities related to sustainability. Each AEC project provides opportunity to learn and build upon new and creative ideas so that they can be applied to future projects.

### CONSTRUCTION WASTE TRACKING

A new specification section 017420 "Construction and Demolition Waste Tracking" has been published **and is to be used on all projects**. This specification is only a means of tracking waste and does not dictate requirements for waste reduction; therefore, there will be no cost implication for projects. Included in the specification is a form for

documenting all types and amounts of demolition and construction materials removed from the project site. U-M Office of Campus Sustainability (OCS) will follow up with AEC projects, collect the forms and use the information collected to create a benchmark from which measurements of waste tonnage diverted to disposal facilities may be made.

Specification section 017420 is available on the AEC website.

### **SUN TRACKER SKYLIGHT TECHNOLOGY**

The goal of sun tracker skylight technology is to replace traditional skylights and bring natural light into a building for a long duration of the day. Through the use of solar-tracking and mirrors that follow the sun, energy costs would be reduced while a large amount of natural lighting would be provided for a building's occupants.

A Michigan based company has offered to provide a "sample" 4'x4' sun tracker skylight on the U-M campus. If you are working on a project that will have new skylights or if you are replacing and/or renovating skylights on an existing building, consider installing sun tracker technology. Through use of this technology, in moderation, we may obtain actual performance information and evaluate the quality of the performance.

For more information on this daylighting technology please talk to Michele Oliver.

### **BIANNUAL SUSTAINABILITY REPORT – FEBRUARY 2013 ISSUED**

The Biannual Sustainability Report for February 2013 is available on the AEC website:

[http://www.umaec.umich.edu/projects/sustainability/02%202013\\_FINAL.pdf](http://www.umaec.umich.edu/projects/sustainability/02%202013_FINAL.pdf)

The biannual report consists of compiled Sustainability Summaries for U-M Major Projects with a Construction Cost of \$5 Million or more. AEC is taking great measures to build buildings with water and energy conservation measures, improved levels of occupant comfort, and sustainable materials and resources and the Sustainability Summaries and Biannual Sustainability Report provides an opportunity to demonstrate these efforts.

Take a few minutes to read the Biannual Sustainability Report, take note of the sustainability initiatives being implemented in U-M projects, and consider how to include sustainability initiatives in your projects.

### **LEED SPLIT REVIEW CHART**

Under the current version of LEED (LEED 2009) project may choose to follow a Split Review or Standard Review process. U-M projects seeking formal LEED certification typically follow the Split Review path. In a Split Review LEED credits are divided into two categories, Design Credits and Construction Credits. Design Credits are submitted for review prior to substantial completion while Construction Credits are submitted for review after Design Credit Review and within 2 years of substantial completion.

A Split Review allows projects to receive feedback on certification progress prior to substantial completion. Feedback is provided after the Design Phase Review providing opportunity for projects to revise or redesign items that were not unaccepted by the Green Building Certification Institute (GBCI).

The AEC Sustainability Team has created a chart to further explain this LEED Split Review Process. This Chart will be located in the U-M Design Manager's Procedure Manual and may also be found at:

<S:\Sustainability\USGBC\LEED Certification Process\ Split Review Flow Chart.pdf>