



Date: March 14, 2014

**Report for the period thru March 15, 2014**  
**Submitted to**  
**Department Business and Professional Regulations**  
**Office of Codes and Standards**

<b>Grantee Name:</b>	University of Central Florida/Florida Solar Energy Center		
<b>Grantee Address:</b>	1679 Clearlake Road, Cocoa, FL 32922		
<b>Grantee's Grant Manager:</b>	James Cummings	<b>Telephone No:</b>	321-638-1403
<b>Reporting Period:</b>	Thru March 15, 2014 (Interim)		
<b>Project Number and Title:</b>	<b>Assessment of Energy Efficient Methods of Indoor Humidity Control</b>		
<p><i>Provide a summary of Project accomplishments to date. (Include comparison of actual accomplishments to the objectives established for the period. If goals were not met provide reasons why)</i></p> <p align="center"><u>Project Overview</u></p> <p>The primary goal of the Assessment of Energy Efficient Methods of Indoor Humidity Control Code research project is to identify approaches and technologies which can achieve energy-efficient latent cooling in light of requirements that increased ventilation rates be implemented in Florida homes.</p> <p align="center"><u>Task Updates</u></p> <p><u>Task# 1. Literature Review, Data Examination and Approach Assessment</u></p> <p>Work on Task 1 to this point has included:</p> <ul style="list-style-type: none"> <li>- Two brief organizational meetings</li> <li>- Initial literature review of approaches to managing the latent load in homes</li> <li>- Development of a research summary spreadsheet.</li> </ul> <p>Next steps include continuing the literature search and beginning examination of relevant experimental data. Later, based on the research findings, an assessment of the energy</p>			





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efficiency and cost-effectiveness of various approaches to managing the latent load in homes will be developed. This assessment will be considered in the development of the Task 2 lab experiments.

## Task# 2. Lab Experiments

Planning meetings were held to discuss preliminary data monitoring plans and experimental configurations, as well as procedural steps and installation location for HVAC equipment that will be part of the Task 2 experiments. At this point, the high efficiency mini-split heat pump, ventilation system, Campbell datalogger, and a portion of the monitoring sensors have been installed in the lab. Installation of HVAC equipment and instrumentation plus data acquisition system programming will begin in the next few weeks.

### Deliverable Update:

#### Deliverable #1 Interim Report

Completed with this submission

#### Deliverable #2 Final Report

Due June 15, 2014

**A. Provide an update on the estimated time for completion of the project and an explanation for any anticipated delays.**

No relevant information to report at this time

**B. Provide any additional pertinent information including, when appropriate, analysis and explanation of cost overruns or high unit cost**

No relevant information to report at this time

**C. Identify below, and attach copies of, any relevant work products being submitted for the project for this reporting period (eg. report data sets, links to on-line photographs, etc.)**

No relevant information to report at this time

**D. Hours and budget update**


Not available at this time





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This report is submitted in accordance with the reporting requirements of Work Authorization for \$44,491 dated Feb 14, 2014.

 Robin K. Vieira  
For James Cummings

March 14, 2014

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Signature of the Grantee's Grant Manager  
James Cummings

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Date

