



# CMA Program: Status Update & Overview

***NFRC's Summer  
Membership  
Meeting***

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***Baltimore, MD***

***July 20, 2009***



# *Overview of Presentation*

- 1. Overview of the CMA Program**
- 2. Status, CMA Program Launch**
- 3. CMA Marketing**



# Overview of the CMA Program



# *Overview of CMA Program*

- For reference: the *current* NFRC process
- The *new* CMA process
- How CMA fits within NFRC structure
- CMA offers improvements over the 'site built' system



# Overview of CMA Program

- For reference: the **current NFRC process**
  - Current “non-residential” (commercial/architectural) program: “NFRC **Site-built**” program
  - Site Built Program replaces NFRC ‘residential’ label...
  - ...but similar process: simulate—validate—generate label (certificate)



# *Overview of CMA Program*

- The CMA process: **New Approach**—

**New concept: “build” projects using predefined and certified components from CMA database to issue project-specific label certificate**



# *Overview of CMA Program*

- **The CMA process: **The 3 'Buckets'****
  - **Manufacturer contracts with ASL to simulate frame components**
  - **Suppliers can contract with ASL to simulate IG spacer components**
  - **Center-of-Glass components from existing IGDB**



# *Overview of CMA Program*

- **The CMA process: **The ACE****
  - **The ACE (Approved Calculation Entity) is a new “entity” within NFRC**
  - **The ACE can be independent or employed by a manufacturer**
  - **The ACE is the ‘assembler’ of CMA—approved components to generate a label certificate for a project**



# Overview of CMA Program

- **How CMA fits within NFRC structure**
  - Similar in that CMA relies on thermal simulations performed by ASLs using Window and Therm per NFRC 100 and NFRC 200
  - Validation testing required as with Site Built Program
  - Label Certificate similar to the Site Built Program
  - The *U-factor* and SHGC values are the same



# *Overview of CMA Program*

- **CMA improvements** over ‘site built’ system:
  - The simulation work is done ‘in advance’...
  - Once fully deployed, can result in faster turn-around of label certificate
  - The CMAST program allows bidding, quoting and research by larger user group
  - Approved components do not require re-certification



# Overview of CMA Program

- **CMA improvements** over 'site built' system (*continued*):
  - A *single* label certificate for a project
  - The label certificate can include, as an option, *project-specific, actual sizes*
  - The label certificate is easier to use by the Code officials
  - CMAST program can output *EnergyPlus®* file



# *Overview of CMA Program*

**The NFRC Rating Methodology is **Confirmed** as ‘State-of-the-Art’:  
CMA Program output results in identical U-factor, Solar Heat Gain Coefficient, and Visible Transmittance values**



# Status of the CMA Program Launch



# *Status of CMA Program*

- **CMA Software Tool ('CMAST')**
  - **Beta testing completed...**
  - **...Release of CMAST V 1.0.00 occurred 7/6/09**
  - **CMAST is available for download and use!**
  - **Training has occurred for ASLs, ACEs, IAs, and Test Labs**



# *Status of CMA Program*

- **CMA Software Tool ('CMAST') (*con't*)**
  - **Testing & evaluation continues**
  - **Current sub-minor release: V 1.0.10**
  - **Release V 1.1.00 slated for 10/ 30 '09  
(will include *'financials'* functionality)**



# *Status of CMA Program*

- **Pilot / Demonstration Program**
  - **Purpose: to evaluate CMAST and the CMA program (procedures) and ‘fine-tune’**
  - **Purpose: to educate the stakeholders**
  - **Purpose: to start strong in California, and build on that success**



# The CMA Marketing Program



# *CMA Marketing*

- **Marketing Strategy**

- **Both a 'Push' and 'Pull' approach...**
- **Issued RFPs for 2 Projects:**
  - ✓ **Marketing CMA to the Building Code Community ('Push')**
  - ✓ **Marketing CMA to the Energy Service Providers ('Pull')**
- **Heschong Mahone Group awarded projects**
- **Project work closely corresponds to the Pilot Program in both integration and timeline**



# *CMA Marketing*

- **Marketing Activities To-Date**

- **NFRC staff presentations (2009):**
  - ✓ **January 26—Boston, BEC**
  - ✓ **January 29—New York City, Front, Inc.**
  - ✓ **April 27—Boston, BEC (CMAST demo)**
  - ✓ **May 7—California, Utility Energy Forum**
  - ✓ **May 31—Minneapolis, AAMA Conference**
  - ✓ **July 15—'Nation-wide', webinar**



# *CMA Marketing*

- **Marketing Plan Going Forward ~**

## ***NFRC Staff***

- **August 13—Detroit, Harley Ellis Devereaux,**
- **September 3—Kansas City, MO, GANA**
- **Other sessions in preliminary planning stage**
- **Ongoing throughout 2009...**



# *CMA Marketing*

- **Marketing Plan Going Forward ~**

## ***Heschong Mahone Group***

- **Coordinate both Projects with Pilot/Demonstration Program**
- **Emphasis is on a strong launch in California**
- **Next step is to build on success of the California launch: HMG will lay groundwork and provide tools for this activity**



# Resources

- [www.nfrc.org](http://www.nfrc.org)
- **CMA Webpage:**  
[http://nfrc.org/sb\\_aboutprogram.aspx](http://nfrc.org/sb_aboutprogram.aspx)
- **Labs and Agencies:**  
<http://nfrc.org/labsagencies.aspx>
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# Thanks!

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