



**Asphalt Roofing Manufacturers Association  
Steep-slope Committee Meeting Draft Minutes  
Hilton Alexandria  
5000 Seminary Road  
Alexandria, VA 22311  
Wednesday, March 25, 2009  
Approved: XXXX**

**Chair:** Darrel Higgs, Owens Corning  
**Vice Chair:** Lou Hahn, GAF-Elk Corporation

**Attendees:**

Frank Klink	3M
Pete Westberg	3M
Richard Roe	Atlas Roofing Corporation
Ed Todd	Atlas Roofing Corporation
Richard Snyder	CertainTeed
Michael DiStefano	Continental Materials, Inc.
Eileen Dutton	GAF-Elk Corporation
Adem Chich	GAF-Elk Corporation
Lou Hahn	GAF-Elk Corporation
Helen Hardy-Pierce	GAF-Elk Corporation
William Woodring	GAF-Elk Corporation
Vincent Feinberg	Huhtamaki
Larry Shields	Huhtamaki
Ingo Joedicke	ISP Minerals
Phillip Kehoe	ISP Minerals
Bob Kluttz	Kraton Polymers
Richard Lee	Momentum Technologies
Darrel Higgs	Owens Corning
Andy Panelli	Owens Corning
John Corbett	PABCO
Sid Dinwiddie	PABCO
Nelson Ballard	Performance Roof Systems, Inc.
Tim Kersey	Siplast, Inc.
Aaron Phillips	TAMKO
Travis Turek	TAMKO
Shaik Mohseen	Tarco

**Guests:**

Andre Desjarlais	Oak Ridge National Labs
Jay Crandell	ARES Consulting
Lorraine Ross	Intech Consulting
Dwayne Sloan	Underwriters Laboratories

**Staff:**

Wendell Alcorn	General Counsel
James Baker	Director of Industry Affairs
Michael Fischer	Director of Codes and Standards
Reed Hitchcock	Executive Vice-President
Allen Weidman	ARMA Staff, Sustainability

**Introductions and Opening Remarks**

Darrel Higgs, Chair, called the meeting to order at 8:00 AM, reviewed the objectives of the meeting, recognized first time attendees and asked member to do self introductions.

- **Review of Antitrust Policy**  
Wendell Alcorn, General Counsel, reviewed the ARMA Antitrust and Document Retention Policy.
- **Review and Approval of Minutes**  
Darrel Higgs, Chair, called for approval of the August 20, 2008 Meeting Minutes

**MOTION: Helen Hardy-Pierce moved and Eileen Dutton seconded to approve the minutes of the August 20, 2008, Summer Meeting. The motion passed unanimously.**

- **ARMA Staff Report**

Jim Baker noted due to the full agenda that he would dispense with the staff report.

### Committee Reports

- **Low-slope**

Tim Kersey, Chair of the Low Slope Committee reviewed the activities of the previous day. There were two presentations one by Phil Smith of Factory Mutual who updated the Low-slope Committee and Dwayne Sloane of Underwriters Laboratories. The Low-slope Committee also discussed the recent research and plan forward on addressing the “gravel-ban” in high wind/wind borne debris areas and approved the revisions to the Self-adhered Membrane Technical Bulletin.

- **Communications and Quality Asphalt Roofing Council**

Jim Baker, ARMA staff, reported that the Communications Committee and QARC would be combining meetings in the future to coordinate its positions better and to eliminate the overlap and length of time that members would need to spend at meetings. At the November 2008 Board meeting, the Board of Directors agreed to provide more member company support for Communications activities in light of the current reduction in budget for the committee. This means members will be responsible for developing more articles and content. QARC was not affected by the Board’s reduction in budget as the program is a self-funding program.

- **Health, Safety & Environment**

Jim Baker, ARMA staff reported, the ARMA Health, Safety, and Environment (HSE) Committee has decided to forego its in-person spring committee meeting in favor of a web-based teleconference which will take place on April 8, 2009. HSE Committee Chairman Bob Hockman, TAMKO Building Products, made the decision in an effort to increase attendance while minimizing ARMA member’s travel costs. John Ferraro, ARMA staff, is in the process of creating the PowerPoint presentation and other background materials for the teleconference. For more information on the teleconference and agenda topics, please contact John at 202-207-1121 or [jferraro@kellencompany.com](mailto:jferraro@kellencompany.com).

### Cool Roof Steering Group

- **Purpose, Position & Strategy Review Document**

Darrel Higgs, updated the committee on CRSG previous day’s progress on the strategy document. There will be a follow up call to continue to define ARMA strategy on cool roofing as it relates to energy efficiency, urban heat island, air quality, climate change, and green building standards.

- **Government Grants Solicitation and Projects**

Andre Desjarlais of Oak Ridge National Labs reviewed the potential funding opportunities through Department of Energy (DOE). DOE will receive money from the American Recovery and Re-investment Act 2009 (a.k.a. The Stimulus Bill). There was a discussion on the various projects that ARMA could possibly propose when these funds are released. Members discussed various options including the option of developing a cool roofing climate map similar to the window fenestration map.

- **Issues Update**

- **AB32 Update & Cool Communities**

Jim Baker, ARMA Staff, reported that California was continuing its work on climate change; however the key focus of the work being generated was related to the cap and trade program and vehicle emissions. The draft of the “Local Government Tool Kit” has not been released for comment; however, “The Small Business Tool Kit” is available at [www.coolcalifornia.org](http://www.coolcalifornia.org) and is slated to be approved at the April 2009 CARB Board Meeting. Staff and Eileen Dutton, GAF/Elk, have reviewed the website which is a conglomeration of links that reference state and federal programs like the EPA Energy Star Program with no direct mention of roofing. Staff noted according to Jim Mattesich, Greenberg Traurig, that The Cool Communities Developer Project sponsored by CARB appears to be under reconsideration and has launched a \$700,000 joint research effort with the California Energy Commission to help qualify and quantify the energy saving provided by cool roofing and paving materials over the next four to five years. Jim Baker, ARMA Staff, reported on the difficulties on finding a climatologist to review and help ARMA members understand how increasing roof and pavement albedo will actually effect climate change, according to co-authored paper by Dr. Akbari and Art Rosenfeld. The committee discussed and suggested several options to further the process.

**ACTION: Staff will contact National Asphalt Paving Association (NAPA) to see if they have a position on this topic and a climatologist to educate ARMA members. Bob Kluttz, Kraton Polymers, suggested that the Mackenzie report may be of value.**

- **Issues Update (continued)**
  - **AB32 Update & Cool Communities (continued)**

**ACTION: Lorraine Ross will follow up with Eileen Claussen, PEW Climate Change Center, who has not responded to ARMA's request for help to review the paper.**

- **Title 24**

Reed Hitchcock, Executive Vice-President, reported that several subgroups of the CRSG are continuing to work on updating the insulation trade off calculator and Q & A for Steep Slope.
- **ASHRAE Update 90.1 & 189.1**

Darrel Higgs, Chair, reported that Merle McBride an employee of Owens Corning and ASHRAE Member continue to monitor 90.1 on the association's behalf. A new, low-slope addendum for climate zones 1 and 2 will be out in the next few weeks for the 30 day comment period and the new addendum will be considered at ASHRAE's Annual Meeting on June 19, 2009 in Louisville, Kentucky. Higgs noted that ASHRAE 189.1 will be discussed by the Allen Weidman later in the meeting as part of his Sustainability Council report.
- **Cool Roofing Data Solicitations**

ARMA continues to try and collect actual cost data through Pacific Coast Building Products regarding the cost of installing low-slope reflective roofing. ARMA is attempting to drive the collection of this data by providing a \$400 incentive for contractors to complete the survey.

**Speaker: UL, Dwayne Sloan**

Dwayne Sloane, UL, presented to the group on the various revision and updates occurring at UL. These updates include revising the outline 2375 for Hip and Ridge Shingles into a UL Standard. The new UL2375 Standard will integrate the ASTM D3161 wind requirements and the UL 790/ASTM E108 fire requirement. Since UL2218 failed to reach consensus on the last ballot, UL will address all negative comments received, revise the proposal, re-circulate for comment on or about May 1, 2009 with the ballot closing on or about June 1, 2009. UL has currently withdrawn UL2390 for wind-uplift in favor of ASTM D7158. During the interim period where the code may reference UL2390, UL will provide a clarification letter for any member who may have products rated under this standard. UL is continuing to update files and product listing for to be consistent regarding ASTM D3161 after withdrawing UL997.

**Codes Steering Group**

Mike Fischer, Director of Codes and Standards, reviewed the changes to the ICC Codes Development process that include eliminating the supplemental cycle. The new process will include a single three-year cycle between publications. Fischer discussed the new wind speed maps and requirements that are being proposed in the ongoing revisions to ASCE-7. The changes to ASCE-7 are primarily academic in nature and will provide more precise measurement, while specifying different design wind speeds based upon the relative importance of the structure. The new maps also include new improved hurricane wind risk modeling which effectively lowers the hazard along most of the US coastline and defines higher hazards closer to the coastline instead of further inland. If this revision passes ARMA members will want to pay particular attention when labeling their products that can be used on more than one category of building. The CSG will work with the stakeholders to determine the labeling implications.

The CSG is also working to remove the current re-roofing limitations in the International Residential Code (IRC) for roofs with asphalt shingles, in hail-prone regions. Those requirements are not based upon any technical consensus and do not provide any cost or life safety benefits to consumers, and could cause financial hardship to some homeowners due to unnecessary expense.

ARMA Codes Committee will be working closely with the Roof Assembly Ventilation Coalition to coordinate changes to the code.

Lorraine Ross, Intech Consulting and an ARMA Consultant, reported that she is working with staff at the State of Florida and with the Institute of Business and Home Safety (IBHS) on efforts to clarify and improve requirements for secondary water barriers on reroofing projects in Florida. This is an ongoing issue for the CSG.

**ACTION: Invite IBHS to discuss the Secondary Water Barrier Issue at the August 2009 Committee Meetings.**

**Sustainability Task Force**

Allen Weidman, ARMA Staff, reviewed the current draft ASHRAE 189.1P that is intended to be the first ANSI accredited standard in the green marketplace for building code references. The standard calls for 75% of the roof to have a SRI of 78 for low-slope ( $\leq 2:12$ ) or 29 for steep-sloped ( $>2:12$ ); or comply with EPA's Energy Star Program. There is an

exception for climate zones 6, 7 and 8. There is a prescriptive option for vegetative roofs and various requirements for recycle content, renewable energy, bio-based products and “non-hazardous” construction/demolition practices. There was a discussion regarding the various market implications the standard could create. The Committee reviewed the low-slope committee’s motions from the previous day regarding the need to continue to monitor the development of 189.1P and allocate funds to create a life cycle inventory (LCI).

**MOTION: Helene Hardy-Pierce moved and Lynn Picone seconded to support the Low-slope committee’s endorsement to solicit bids to complete a LCI.  
The motion passed unanimously.**

**ACTION: Allen Weidman will solicit bids for completing the LCI in preparation for the May 2008 Board Meeting.**

Allen Weidman, ARMA Staff, reviewed the current ASHRAE 189.1P that is attempting to be the first ANSI accredited standard in the marketplace for the codes references. The standard calls for 75% of the roof to have a SRI of 78 for low-slope ( $\leq 2:12$ ) or 29 for steep-sloped ( $>=2:12$ ); and or comply with EPA’s Energy Star Program. There is an exception for climate zones 6, 7 and 8. There is a prescriptive option for vegetative roofs and various requirements for recycle contents, renewable energy, use of bio-based products and “non-hazardous” construction/demolition practices. There was a discussion regarding the various implications the standard could create within the codes community and the low-slope committee’s motions from the previous day regarding the need to continue to monitor the development of 189.1P and allocate funds to create a life cycle inventory (LCI).

**MOTION: Helene Hardy-Pierce moved and Lynn Picone seconded to support the Low-slope committee’s endorsement to solicit bids to complete a LCI.  
The motion passed unanimously.**

**ACTION: Allen Weidman will solicit bids for completing the LCI in preparation for the May 2008 Board Meeting.**

#### **Ventilation Coalition Presentation**

Jim Baker, ARMA Staff, reviewed the current work of the Roof Assembly Ventilation Coalition including its key accomplishments to-date e.g. raising \$29,000 for the formation of the coalition; 4 press releases about the coalition successes; finalizing an industry and consumer white paper; launching [www.ravcoalition.org](http://www.ravcoalition.org); and drafting an abstract on attic ventilation for the 2010 International Roofing Exposition. The coalition will work closely with ARMA to address specific changes in the codes arena and focus on R806.1 Required Ventilation; R806.2 Minimum Area; and R806.3 Vent and Insulation Clearance. Dave Roodvoets presented the ASHRAE RTAR at the coalition’s March 23, 2009 meeting. The coalition formed a research task-force to review the RTAR, which ARMA had previously approved funding for in the amount of \$15,000.

#### **Reflectance Certification Task Force Update**

Jim Baker, ARMA Staff, reported that at the November 2009 Board Meeting the task force was directed by the Board of Directors to leverage the current three year aged data and show various regulatory bodies that shingle reflectance does not decrease over time, instead of perusing an alternative shingle rating method with the Cool Roof Rating Council (CRRC). The RCTF meet and reviewed its options and recommend to the Cool Roof Steering Group that eliminating the three-year aging requirement should be a key component of the CRSG strategy with various regulatory bodies such as EPA Energy Star and the California Energy Commission, as the CRRC was simply a rating council that did not have the authority to remove the CEC’s aging requirement. The RCTF was informed of the CRRC’s efforts to pick up on the ARMA alternate shingle rating program and solicit government money from DOE through the ARRA to fund multiple projects including the alternative shingle rating process. The task force felt it should continue to work with the CRRC to ensure the best interests of ARMA members were represented in the CRRC research proposal.

#### **Aged and Insulated Deck Program**

Lou Hahn, GAF/Elk, reviewed the Aged and Insulated Deck Research programs, noting that at the last committee meeting funds were approved by the committee mistakenly and that this was a self-funding program paid for by the manufacturers and not by ARMA. Jim Baker, ARMA Staff, reviewed the 2008 and 2009 expected costs and led the committee in a discussion about moving forward and suggested that the program be extended on a year-by-year basis by the participating member companies.

**ACTION: Jim Baker, ARMA Staff, will contact previously billed member company contacts and review the 2008 and 2009 costs associated with the program to determine if the project will continue.**

**ARMA-NRCA QC Task Force**

Bill Woodring, GAF/Elk, reported that the task-force will meeting March 25-26, 2009 to work on the QC document.

**New Business and Summary**

• **New Business**

○ **Arkansas Tax Credit Bill**

Jim Baker, ARMA Staff, reported the Arkansas House of Representatives recently introduced bill HB2077 that would allow a state tax credit for installing reflective metal roofing. ARMA will follow up and suggest to legislators that the bill be consistent with the federal tax credit available through the EPA's Energy Star Program and include reflective asphalt roofing shingles as well.

○ **Hand-sealing Shingle Guidance Document**

Darrel Higgs, Chair, reviewed the Hand-sealing Shingle Guidance document sent to ARMA by Timothy Moore, Pricing/Code and Guideline Specialist of Triage Management Services, who would like ARMA to review and provide any feedback on his draft document. There was a discussion that members should review the document and it will be placed on the agenda for the August 2009 Summer Committee Meetings.

**ACTION: ARMA Staff will circulate the document and poll members as to whether it should be addressed by the committee.**

• **Next Meeting & Proposed Speakers**

Staff reviewed the list of potential speakers and topics for the next meeting that included IBHS to discuss secondary water barrier in Florida; NAPA to discuss any research it may have on high albedo surfaces and climate change; and the Roof Assembly Ventilation Coalition will present it 2010 IRE Presentation.

**Adjournment**

Darrel Higgs, Chair, adjourned the meeting at 12:00 noon.