



**ARMA Health, Safety, Environment Committee (HSE)  
Meeting Agenda**

**Tuesday, September 13, 2022 Room: Guilford**

**Zoom: [https://us02web.zoom.us/j/86845855654?](https://us02web.zoom.us/j/86845855654?pwd=MVdBZU1VSUVycVU4K3QyWTlXWUtOZz09)**

**[pwd=MVdBZU1VSUVycVU4K3QyWTlXWUtOZz09](https://us02web.zoom.us/j/86845855654?pwd=MVdBZU1VSUVycVU4K3QyWTlXWUtOZz09)**

Time (ET)	Discussion Topic	Back-up Materials
3:15-3:20	<b>Call to Order</b> <ul style="list-style-type: none"> <li>Roll Call</li> <li>Antitrust Reminder</li> <li>Agenda Review and Approval</li> <li>Approval of Minutes</li> </ul>	-Antitrust Quick Reference -HSE Committee Meeting Minutes from April 25-26, 2022
3:20-4:00	<b>Honeywell's New Asphalt Technology and Carbon Footprint Development</b> <ul style="list-style-type: none"> <li>Ruan Yonghong &amp; Scott Hacker, Honeywell</li> </ul>	
4:00-4:10	Q&A/BREAK	
4:10-4:50	<b>NAPA EH&amp;S Activities with Focus on Environmental Topics</b> <ul style="list-style-type: none"> <li>Howard Marks, Vice President, Environment, Health &amp; Safety, NAPA</li> </ul>	
4:50-5:00	Q&A	

**Wednesday, September 14, 2022 Room: Guilford**

**Zoom: [https://us02web.zoom.us/j/84898885787?](https://us02web.zoom.us/j/84898885787?pwd=SVpxS0Z0YzQzOHhBOTJxTHlzQkFqdz09)**

**[pwd=SVpxS0Z0YzQzOHhBOTJxTHlzQkFqdz09](https://us02web.zoom.us/j/84898885787?pwd=SVpxS0Z0YzQzOHhBOTJxTHlzQkFqdz09)**

Time (ET)	Discussion Topic	Back-up Materials
8:30-8:45	<b>Call to Order</b> <ul style="list-style-type: none"> <li>Roll Call</li> <li>Antitrust Reminder</li> <li>Agenda Review</li> </ul>	
8:45-9:30	<b>ARMA's Asphalt Roofing Recycling Committee Activities</b> <ul style="list-style-type: none"> <li>Laurand Lewandowski, Owens Corning</li> </ul>	
9:30-9:45	Q&A/BREAK	
9:45-10:30	<b>Risk Assessment &amp; Risk Management</b> <ul style="list-style-type: none"> <li>Georgi Popov, Professor &amp; Chair of Occupational Risk Sciences, University of Central Missouri</li> </ul>	
10:30-10:45	Q&A/BREAK	
10:45-11:30	<b>What to Expect from the Biden EPA</b> <ul style="list-style-type: none"> <li>Bill Wehrum, Wehrum Environmental Law LLC</li> </ul>	
11:30-12:00	Q&A/BREAK	
12:00-1:00	LUNCH	
1:00-1:45	<b>Occupational Heat Illness and Wildfire Smoke Standards</b> <ul style="list-style-type: none"> <li>Courtney Malveaux, Principal, Jackson Lewis P.C.</li> </ul>	
1:45-2:00	Q&A/BREAK	
2:00-3:00	<b>ARMA HSE Regulatory Update</b> <ul style="list-style-type: none"> <li>Miriam Higginbotham, ARMA</li> <li>Bob Hockman, TAMKO Building Products LLC</li> <li>Mark Klein, GAF</li> </ul>	
3:00	<b>Adjournment</b>	



To: ARMA Members and Staff

From: Reed Hitchcock, Executive Vice President

**Re: Antitrust Compliance - Quick Reference**

The Asphalt Roofing Manufacturers Association (“**ARMA**” or “**Association**”) has in effect an Antitrust Compliance Policy (“**Policy**”). The Policy is intended for the guidance of ARMA member company representatives, officers, directors and staff, when engaged in any activity conducted in the name of, or on behalf of, ARMA. All such persons are expected to be familiar with the Policy and to follow it both in letter and spirit.

The following cautionary statements are taken from the full Policy and are intended to be used as a quick reference tool. This document is not a substitute for the full Policy, which is available from the Association’s office and with which all are expected to be conversant. At all Association meetings and events, including informal gatherings before, during or following such meetings and events, **ARMA** members, their representatives and guests will not discuss any of the following competitively sensitive topics:

1. Current or future prices, price levels, costs or profit margins.
2. What is a fair or rational profit level.
3. Actions which could lead to standardizing or stabilizing prices.
4. Pricing or bidding methodologies or procedures.
5. Pricing practices or strategies, including methods, timing or implementation of price changes.
6. Whether or how prices, warranties or other terms of sale are advertised.
7. Cash or any other discounts, rebates, service charges or other terms and conditions of sale.
8. Credit terms.
9. Product warranty terms.
10. Actual, planned or projected production, production capacity or capacity utilization.
11. Projected demand.
12. Confidential company plans for new products.
13. Dividing or allocating geographic or product markets or customers.
14. Whether or on what terms to do business with a supplier, competitor or customer.
15. Whether or on what terms to solicit other companies’ employees for employment.
16. The business practices of individual firms.
17. The validity of any patent or the terms of any patent license.
18. Ongoing litigation, unless being reported upon by ARMA’s General Counsel or discussed appropriately at ARMA’s Counsel Forum.

**We hope the above rules will be helpful as you participate in ARMA meetings and other activities. If you have any questions about antitrust compliance, do not hesitate to contact ARMA’s General Counsel:**

**C. Michael Deese**  
**ARMA General Counsel**  
**Howe & Hutton, Ltd.**  
**Tel: (202) 466-7252 x103**  
**Email: cmd@howehutton.com**



Asphalt Roofing Manufacturers Association  
ARMA Health, Safety, Environment Committee  
Spring Meeting – Kansas City, Missouri DRAFT Minutes  
**Tuesday, April 26 – Wednesday, April 27, 2022**

**Attendance:**

Damion Adams, CECO Filters  
Shyla Blacketter Dwyer, TAMKO Building Products  
James Dodson, TAMKO Building Products  
Disha Gadre, Trinity Consulting  
Steven Grier, IKO Production, Inc.  
Bob Hockman, TAMKO Building Products  
Jay Keating, IKO Production, Inc.  
Mark Klein, GAF  
Todd Jackson, SOPREMA, Inc.  
Tom Lecorchick, Bitumar USA, Inc.  
Ariel Lender, Polyglass USA, Inc.  
Laurand Lewandowski, Owens Corning  
Bradley Link, Owens Corning  
Toni Newsome, Owens Corning  
Jennifer Sasser, Ergon Armor  
Robert Sheffield, MTi Polyexe Corporation  
Tony Silva, Malarkey Roofing Products  
Brent Tracy, Johns Manville  
Yonghong Ruan, Honeywell  
Paul Sohi, Asphalt Institute  
Devlin Whiteside, Owens Corning

**Virtual Attendance:**

Regent Bedard, Building Products of Canada  
Michelle Benatti McNerlin, Firestone Building Products Company  
Heather Estes, GAF  
Lesbia Giron, 3M Industrial Mineral Products Division  
Randy Hughes, Mid States Asphalt  
Mindy Kairis, Owens Corning  
Celeste Levine, GAF  
Eric Miller, TAMKO Building Products  
Bruce Ubelhart, SOPREMA, Inc.

**ARMA Staff/Consultants:**



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Reed Hitchcock, ARMA Executive Vice President  
Miriam Higginbotham, ARMA HSE Director  
Aaron Phillips, ARMA Vice President of Technical Services  
Mike Deese, ARMA General Counsel (virtual attendance)  
Art Sampson, ARMA Regulatory Counsel (virtual attendance)  
Bill Fayerweather, ARMA Consultant  
Shelby Smiley, ARMA Associate Director  
Lisa Christie, ARMA Membership Coordinator (virtual attendance)  
Lisa Davidson, ARMA Committee Liaison

**Call to Order:**

ARMA Health, Safety, and Environment (HSE) Director Miriam Higginbotham called the meeting to order at 3:15 pm CT and reviewed role call procedures. ARMA General Counsel Mike Deese reviewed the ARMA Antitrust Compliance Policy. Introductions were made around the room.

**Motion to approve the agenda (Whiteside, Lecorchick) carried.**

**Motion to approve the minutes from the HSE Committee teleconference held on September 1, 2021 as presented (Whiteside, Lecorchick) carried.**

**Odors Seminar**

Ms. Higginbotham introduced the speaker, Disha Gadre, Trinity Consultants, who presented an *Odors Seminar*. She provided background on the chemistry of odors; measurement techniques; local regulatory efforts; odor control techniques and technologies; and recommendations for reducing the likelihood of community odor complaints.

**Odors & Related Emissions Factors**

HSE Committee Chair Bob Hockman, TAMKO Building Products, presented information about increased concerns regarding asphalt odors. Hockman reviewed environmental justice updates concerning asphalt plants and highlighted EPA's AP-42 emissions factors enforcement alert. He then shared information on the Asphalt Institute (AI) Odors & Related Emissions Task Force and reviewed their problem statement and response options. He indicated that there could be a future opportunity for ARMA involvement.

**Motion to amend the agenda to move the HSE Regulatory Update to April 27<sup>th</sup> agenda (Whiteside, Lecorchick) carried.**

The meeting was recessed at 4:54 pm CT and reconvened on April 27, 2022 at 8:28 am CT with the following persons in attendance:



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Damion Adams, CECO Filters  
Trae Baham, Ergon Armor  
Shyla Blacketter Dwyer, TAMKO Building Products  
Douglas Cechovic, SGI  
Maure Creager, CertainTeed LLC  
James Dodson, TAMKO Building Products  
Eileen Dutton, Malarkey Roofing Products  
Rebecca Everman, 3M Industrial Mineral Products Division  
Disha Gadre, Trinity Consultants  
Steven Grier, IKO Production, Inc.  
Bob Hockman, TAMKO Building Products  
Randy Hughes, Mid States Asphalt  
Jay Keating, IKO Production, Inc.  
Mark Klein, GAF  
Mindy Kairis, Owens Corning  
Tia Jeter, SCS Engineers  
Ariel Lender, Polyglass USA, Inc.  
Randy Morgan, 3M Industrial Mineral Products Division  
Lynn Picone, GAF  
Yonghong Ruan, Honeywell  
Jennifer Sasser, Ergon Armor  
Jon Shaffer, Ergon Armor  
Robert Sheffield, MTi Polyexe Corporation  
Tony Silva, Malarkey Roofing Products  
Michael Stieh, GAF  
Nancy Teague, Malarkey Roofing Products  
Brent Tracy, Johns Manville  
David Warden, Ergon Armor  
Devlin Whiteside, Owens Corning

**Virtual Attendance:**

Regent Bedard, Building Products of Canada  
Brian Davis, GAF  
Heather Estes, GAF  
Lesbia Giron, 3M Industrial Mineral Products Division  
Jaime Gonzalez, Owens Corning



Asphalt Roofing Manufacturers Association  
ARMA Health, Safety, Environment Committee  
Spring Meeting – Kansas City, Missouri DRAFT Minutes  
**Tuesday, April 26 – Wednesday, April 27, 2022**

Celeste Levine, GAF  
Joseph Lohkamp, CHUBB  
Jonathon MacBride, Specialty Granules LLC  
Michelle Benatti McNerlin, Firestone Building Products Company  
Jennifer O’Neale, Firestone Building Products Company  
Eric Miller, TAMKO Building Products  
Robert Sheffield, MTi Polyexe Corporation  
Michael Sullivan, MTi Polyexe Corporation  
Bruce Ubelhart, SOPREMA, Inc.

**ARMA Staff/Consultants:**

Reed Hitchcock, ARMA Executive Vice President  
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Ms. Higginbotham gave an overview of the agenda.

**Industrial Hygiene Programs**

Ms. Higginbotham introduced Joseph Lohkamp, CHUBB Global Risk Advisors, who presented on *Industrial Hygiene Programs*. He covered each step of the American Industrial Hygiene Association (AIHA) Exposure Assessment Strategy: 1) developing a plan, 2) basic characterization, 3) exposure assessment, 4) further information gathering, 5) health hazard control, 6) reassessment, and 7) communication/documentation.

**ARMA IH Database Program Review**

Mark Klein, GAF, gave an overview of the ARMA’s IH Database Program, including the submission and data review process by the ARMA IH QA/QC Task Force. He shared data submission metrics as of April 2022, and he encouraged ARMA member participation.



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ARMA Health, Safety, Environment Committee  
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Tuesday, April 26 – Wednesday, April 27, 2022

### **Environmental Justice and Civil Rights**

Ms. Higginbotham introduced Fred Wagner, Venable LLP, who presented on *Environmental Justice/Equity and Enforcement: New Approaches Come Into Focus*. He covered the origins of the environmental justice (EJ) movement; highlighted key EJ Executive Orders and EPA's 2021 EJ Policy Memoranda; reviewed federal actions targeting state/local permitting and regulatory actions; addressed the use of Title VI challenges to permitting; and gave an overview of EJ mapping tools.

### **Perimeter Monitoring**

Ms. Higginbotham introduced Paul Schafer, SCS Engineers, who presented on *Perimeter Air Monitoring*. Schafer gave a brief history of air sensing, and then covered why air monitoring is performed; air monitoring methods; perimeter monitoring for compounds of concern to the asphalt industry; and considerations for planning.

### **CARE Developments**

Mr. Hockman provided background on the activities of the CARE Coalition, and he noted that field studies may be possible in the future and reviewed possible field testing concepts.

Bill Fayerweather, ARMA Consultant, gave an overview of his work on the roofing Reappraisal of the 2020 Khare, et al. study. He reviewed the research objectives of the analysis and the six stages of the Reappraisal and uncertainty analysis. He reviewed the outputs that were identified from Khare's Table 1 and then reviewed how each input was reappraised. He noted that this analysis suggests Khare overestimates emissions by a wide margin, and that Khare's decay curve suggests emissions reach a practical zero at thirty days.

### **Impact of UV and Temperature on Asphalt Emissions**

Ms. Higginbotham introduced Tony Kreich and Doug Kriech, Heritage Research Group (HRG), who presented on the *Impact of UV and Temperature on Asphalt Emissions*. Tony Kriech discussed how HRG's weatherometer studies were designed to characterize emissions from asphalt more accurately than the 2020 Khare, et al. study. He also reviewed the concept of an emittable asphalt compounds reservoir and possible emission pathways, and the effects of temperature and viscosity on measured emissions.

Doug Kriech finished the presentation by reviewing the history of HRG and the goals they hope to achieve with the experiment.

### **HSE Regulatory Update**

Ms. Higginbotham presented the *HSE Regulatory Update*. Higginbotham gave an update on EPA's Toxic Substances Control Act (TSCA) review of formaldehyde, including the timeline for the review, and she noted that EPA may have trouble meeting these deadlines due to multiple challenges. ARMA will review options once it is known how EPA plans to fill data gaps for the review. Higginbotham also reviewed the TSCA asbestos risk evaluation and noted that there are two parts (chrysotile asbestos and legacy



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use/disposal of asbestos). Some ARMA members may be affected by the legacy uses review if their facilities still contain asbestos. She noted Part 2 of the evaluation also addresses use of talc, which can be co-located with asbestos, and shared comments from the Asbestos Disease Awareness Organization (ADAO) regarding the use of talc in roofing manufacturing. Committee members gave feedback that they are not generally aware of the use of talc in asphalt roofing manufacturing. Finally, Higginbotham reviewed EPA's March 2022 Clean Air in Buildings Challenge.

**New Business**

There was no new business.

**Next Meeting:**

To be determined.

**Action Items:**

There were no action items.

**Adjournment:**

**Motion to adjourn the meeting at 2:53 PM CT (Whiteside, Dutton) carried.**