



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

Related Sessions

Though not officially part of the ARMA HSE Committee Meeting, attendees are encouraged to participate in the following two sessions, held in Nichols ABC and virtually via Zoom:

<https://us02web.zoom.us/j/82570550039?pwd=b3JlRzhjbUdzTXRnTHQ2ZXI5YjN2dz09>

Tuesday, April 26, 2022

Time (CT)	Discussion Topic	Back-up Materials
1:00-1:45	Developing Environmental Product Declarations (EPD's): Life Cycle Assessment Fundamentals and Standardization <ul style="list-style-type: none"> Chait Bhat, Sustainability Engineer, Asphalt Institute 	
1:45-3:00	Asphalt Roofing Recycling Committee (ARRC) Meeting <ul style="list-style-type: none"> Laurand Lewandowski, Owens Corning Aaron Phillips, ARMA Miriam Higginbotham, ARMA 	

ARMA HSE Committee Meeting

Tuesday, April 26, 2022

Room: McCoy AB

Zoom: <https://us02web.zoom.us/j/82302969725?pwd=SzFFMW9WS3V0eGJqa1R4eFM1THF5QT09>

Time (CT)	Discussion Topic	Back-up Materials
3:15-3:30	Call to Order <ul style="list-style-type: none"> Roll Call Antitrust Reminder Agenda Review and Approval Approval of Minutes Welcome 	-Antitrust Quick Reference -HSE Committee Meeting Minutes from Sept. 1-2, 2021
3:30-4:15	Odor Seminar <ul style="list-style-type: none"> Disha Gadre, Trinity Consultants 	
4:15-4:30	Odors & Related Emissions Factors: Asphalt Institute Project <ul style="list-style-type: none"> Bob Hockman, TAMKO Building Products LLC 	
4:30-5:00	HSE Regulatory Update <ul style="list-style-type: none"> Miriam Higginbotham, ARMA 	
5:00	Adjournment	



Asphalt Roofing Manufacturers Association
Health, Safety, Environment Committee Meeting
April 26, 2022 – April 27, 2022

Wednesday, April 27, 2022

Room: McCoy AB

Zoom: <https://us02web.zoom.us/j/89404587776?pwd=YlkvYzNTbjJqb0J6N09lWFNlYzVrdz09>

Time (CT)	Discussion Topic	Back-up Materials
8:15-8:30	Call to Order <ul style="list-style-type: none"> • Roll Call • Antitrust Reminder • Agenda Review and Approval • Welcome 	-Antitrust Quick Reference
8:30-9:45	Industrial Hygiene Programs <ul style="list-style-type: none"> • Joseph Lohkamp, Chubb 	
9:45-10:00	ARMA's IH Database Program <ul style="list-style-type: none"> • Mark Klein, GAF • Miriam Higginbotham, ARMA 	
10:00-10:15	BREAK	
10:15-11:15	Environmental Justice/Equity & Enforcement: New Approaches Come Into Focus <ul style="list-style-type: none"> • Fred Wagner, Partner, Venable LLP 	
11:15-12:00	Perimeter Air Monitoring <ul style="list-style-type: none"> • Tia Jeter, Anastasia Welch & Paul Schafer, SCS Engineers 	
12:00-1:00	LUNCH	
1:00-1:45	CARE Developments <ul style="list-style-type: none"> • Bob Hockman, TAMKO Building Products LLC • Bill Fayerweather, ARMA Consultant 	
1:45-2:30	Impact of UV and Temperature on Asphalt Emissions <ul style="list-style-type: none"> • Doug Kriech, Tony Kriech, Heritage Research Group 	
2:30-3:00	Open Discussion of Emerging HSE Issues <ul style="list-style-type: none"> • Tony Silva, Malarkey Roofing Products 	
3:00	Adjournment	



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



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Attendance:

Khalid Abdullah, Zochem
Russ Addison, Atlas Roofing Corporation
Jason Anderson, PABCO Roofing Products
Regent Bedard, Building Products of Canada
Michelle Benatti, Firestone Building Products Company
Shyla Blackketter Dwyer, TAMKO Building Products LLC
Anne Carpenter, Baker Botts
Mark Defreitas, SOPREMA
David Dibblee, CertainTeed LLC
James Dodson, TAMKO Building Products LLC
Alexandra Dunn, Baker Botts
Eileen Dutton, Malarkey Roofing
Heather Estes, GAF
Mike Franzen, Owens Corning
Dennis Helka, Fiberteq
Bob Hockman, TAMKO Building Products, LLC
Randy Hughes, Mid-States Asphalt
Todd Jackson, SOPREMA
Jay Keating, IKO Production, Inc.
Phil Kehoe, Harsco Environmental
Tony Kilgore, TAMKO Building Products LLC
Stephanie Kiriazes, Firestone Building Products Company
David Koschitzky, IKO Production, Inc.
James Larke, SOPREMA
Celeste Levine, GAF
Stephen Masciangelo, IKO Production, Inc.
Steven Miefert, Firestone Building Products Company
Randy Morgan, 3M Industrial Mineral Products Division
Jennifer Oldvader, TAMKO Building Products, LLC
Cassie Orman, Firestone Building Products Company
David, Ploense, CrafcO, Inc.
Sandra Potter, TAMKO Building Products, LLC
Kelly Sandin, Johns Manville
Robert Sheffield, MTI Polyexe Corporation
Tony Silva, Malarkey Roofing
Paul Sohi, Asphalt Institute



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Mike Sullivan, MTI Polyexe Corporation
Brent Tracy, Johns Manville
Stacy Troy, Polyglass USA, Inc.
Bruce Ubelhart, SOPREMA
Devlin Whiteside, Owens Corning
Jim Wicks, TAMKO Building Products, LLC
Alex Zarker, PABCO Roofing Products

ARMA Staff/Consultants:

Reed Hitchcock, ARMA Executive Vice President
Miriam Higginbotham, ARMA HSE Director
Mike Deese, ARMA General Counsel
Art Sampson, ARMA Regulatory Counsel
Shelby Smiley, ARMA Associate Director
April Elligson, ARMA Director of Meetings
Lisa Christie, ARMA Membership Coordinator

Call to Order:

Higginbotham called the meeting to order at 1:01 pm ET on Wednesday, September 1, 2021. Deese reviewed the ARMA Antitrust Compliance Policy.

Higginbotham gave an overview of the agenda.

Motion to approve the agenda as presented (Dutton, Hockman) carried.

Motion to approve the minutes from the HSE Committee meeting held on April 28, 2021 as presented (Silva, Dutton) carried.

Overview of Asphalt Institute (AI) HSE Activities

Higginbotham introduced the speaker, Paul Sohi from Asphalt Institute. Sohi began the presentation with the organizational structure of AI and information on their partnerships with different organizations within the asphalt industry. He shared information on a number of AI's completed health and safety inspired projects, including the International Agency for Research on Cancer (IARC) review of bitumen; publication of "Pyrophoric Material Formation in Heated Asphalt Storage Tanks;" and a literature review of lung function decline in asphalt paving workers. Sohi then gave an update on current AI HSE projects, including Coalition for Asphalt Research on Emissions (CARE) activities; the loading matrix project; and a literature review of runoff and leaching from asphalt paving and roofing materials.



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Bob Hockman gave an update on a project, currently being considered by AI, to develop data-based emissions factors for asphalt storage tanks. He noted that AI and the National Asphalt Pavement Association (NAPA) are putting together a problem statement and AI is conducting a literature review. Sohi touched on future HSE issues and noted that partnerships continue to be important for future success.

The Committee recessed and reconvened at approximately 3:00 pm ET.

Deese reminded attendees that ARMA's Antitrust Compliance Policy applied to the reconvened meeting.

Environmental Justice Spotlight – Current Developments and Strategies for Readiness

Higginbotham introduced the guest speakers, Anne Carpenter and Alexandra Dunn from Baker Botts LLP. Dunn began the presentation with a history of the environmental justice (EJ) movement. Carpenter gave an overview of how the Biden administration has approached EJ. Carpenter discussed how EJ concerns are affecting environmental enforcement and permitting actions and described some of the tools being used by agencies and public interest groups to identify EJ issues. Dunn shared tips on building a corporate EJ tool kit, including a legal risk mitigation tool.

Higginbotham opened the meeting for Q&A. Members asked clarifying questions regarding EJ terminology, such as the definition of "disadvantaged communities" and whether or not EJ could be a basis for blocking a permit renewal in an area that now is, but was not previously, considered disadvantaged.

The meeting was recessed at 4:07 pm ET and reconvened at 1:00 pm on Thursday, September 2, 2021, with the following persons in attendance:

Khalid Abdullah, Zochem
Russ Addison, Atlas Roofing Corporation
Jason Anderson, PABCO Roofing Products
Regent Bedard, Building Products of Canada, Corp.
Michelle Benatti, Firestone Building Products Company
Shyla Blackketter Dwyer, TAMKO Building Products, LLC
Mark Defreitas, SOPREMA
James Dodson, TAMKO Building Products, LLC
Eileen Dutton, Malarkey Roofing
Heather Estes, GAF
Rebecca Everman, 3M Industrial Mineral Products Division
Mike Franzen, Owens Corning
Dennis Helka, Fiberteq
Bob Hockman, TAMKO Building Products, LLC



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Todd Jackson, SOPREMA
Jay Keating, IKO Production, Inc.
Phil Kehoe, Harsco Environmental
Tony Kilgore, TAMKO Building Products, LLC
Stephanie Kiriazes, Firestone Building Products Company
Celeste Levine, GAF
Rick Martelon, Johns Manville
Stephen Masciangelo, IKO Production, Inc.
Cassie Orman, Firestone Building Products Company
David Ploense, Crafcro, Inc.
Sandra Potter, TAMKO Building Products, LLC
Kelly Sandin, Johns Manville
Tony Silva, Malarkey Roofing
Shawn Swearingen, American Chemistry Council
Brent Tracy, Johns Manville
Bruce Ubelhart, SOPREMA
Jay West, American Chemistry Council
Devlin Whiteside, Owens Corning
Melike Yersiz, U.S. Chemical Safety Board
Alex Zarker, PABCO Roofing Products

ARMA Staff/Consultants:

Reed Hitchcock, ARMA Executive Vice President
Miriam Higginbotham, ARMA HSE Director
Mike Deese, ARMA General Counsel
Art Sampson, ARMA Regulatory Counsel
Shelby Smiley, ARMA Associate Director
April Elligson, ARMA Director of Meetings
Lisa Christie, ARMA Membership Coordinator

Deese reviewed the ARMA Antitrust Compliance Policy.

Higginbotham gave an overview of the agenda.

Motion to approve the September 2 agenda as presented (Hockman, Whiteside) carried.



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Higginbotham reminded attendees that the meeting presentations are available on the ARMA website in the Members Only section.

Overview of U.S. Chemical and Hazard Investigation Board

Higginbotham introduced the speaker, Melike Yersiz from the U.S. Chemical Safety and Investigation Board (CSB). Yersiz began the presentation by sharing an animation of an asphalt fire at a refinery plant, an event which is currently under CSB investigation and on which she is the lead investigator. She then gave an overview of the CSB and described its statutory authority, noting it investigates and reports on accidental chemical releases and does not include compliance determinations, enforcement actions or determinations of fault. She presented the CSB vision and mission statements and outlined the different types of publications that CSB has released. She then reviewed the CSB investigation process.

Higginbotham opened up the meeting for Q&A. Members asked clarifying questions on the CSB investigative process, including whether companies becoming the subject of an investigation may decline to permit investigators to enter their property and how they may impact the content of the final CSB report. Ms. Yersiz indicated that, to her knowledge, there have been no CSB investigations of roofing manufacturing facilities.

The meeting recessed at 1:37 pm ET and reconvened at 2:15pm ET.

An Overview of PFAS: What Manufacturers Need to Know

Higginbotham introduced the speakers, Shawn Swearingen and Jay West from American Chemistry Council. They presented the purpose statements of the Performance Fluoropolymer partnership and the Alliance for Telomer Chemistry Stewardship. West gave an overview of PFAS and the importance of being very clear and precise when speaking of the different PFAS types. West discussed fluoropolymer uses and Swearingen gave examples of C6 fluorotelomer products and the industries in which they are used. West gave an overview of the international, federal and state regulatory landscape for PFAS. West discussed PFAS detection methods and mentioned that EPA has many other methods of detection under development.

Higginbotham opened the meeting up for Q&A. Members asked questions in regard to the number of PFAS compounds that have been identified as harmful; how the roofing industry can obtain information on the presence of PFAS in raw materials used in asphalt roofing manufacturing; and the use of PFAS with gaskets.

Summary of Other HSE Developments & Discussion

Higginbotham provided an update on ARMA's recent regulatory activities. She first reported on activities of the Coalition for Asphalt Research on Emissions (CARE) activities, particularly those of the ARMA CARE



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Group. She highlighted that the ARMA CARE Group and a statistical consultant have been working on a critical analysis of a recent paper (Khare, et al., 2020) reporting that in-place asphalt paving and roofing products exposed to ambient conditions of temperature and sunlight are major unrecognized sources of emissions that contribute to ambient particulate matter and ozone air pollution. She reported the preliminary results of the critical review suggest that the Khare, et al. paper overstates emissions by a wide margin.

She then provided an update on EPA's hazardous air pollutant (HAP) standards under the Clean Air Act (CAA) for Wet-Formed Fiberglass Mat Production, and for Asphalt Processing and Roofing Manufacturing. She reported that ARMA continues to monitor EPA's response to a recent court decision requiring EPA to set standards for unregulated HAPs when it conducts CAA-required reviews of standards, and the impact EPA's response may have on the HAPs standards applicable to ARMA member facilities.

Finally, she reported on recent EPA policy and scientific developments that may affect the findings and regulatory actions in EPA's ongoing Toxic Substances Control Act (TSCA) review of formaldehyde. She indicated that ARMA will continue to monitor the ongoing TSCA reviews of other substances for further developments. She also told the Committee that the relevant ARMA task forces will convene later this year or early next year to decide whether to submit IH data from the ARMA formaldehyde database to EPA.

Higginbotham opened the meeting up for Q&A. Members asked clarifying questions on the critical review of the Khare, et al. paper.

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 (Silva, Hockman) carried.

Higginbotham adjourned the meeting at 3:41 pm ET.