

Minutes
Fog & Smoke Working Group
15 July 2020
via WebEx

Chairperson:

Mike Wood (acting chairperson)

Recording secretaries:

Karl Ruling and Richard Nix (ESTA)

Attendees:

Brad Dittmer; Stage Labor of the Ozarks; P; U
Edwin S. Kramer; I.A.T.S.E. Local 1; P; DE
Franco Magliozzi; Chubb Group of Insurance Companies; O; G
Karl G. Ruling; Unit 12 Productions; I; CP
Larry Schoeneman; Larry Schoeneman; O then I; G
Mona Shum; Aura Health and Safety Corporation; I; U
Stephen Vanciel; IATSE Local 631; P; U
Mike Wood; Mike Wood Consulting LLC; P; G

Visitors:

Hans Lau; Local 728

1 Opening Remarks

In the absence of the working group chairpersons at the meeting start time, Mike Wood volunteered to run the meeting, and called the meeting to order at 17:07. Welcoming everyone to the meeting. (Dittmer and Schoeneman joined the meeting later.)

2 Patent and anti-trust statements

2.1 Reading of the anti-trust statement

The following statement was read aloud to the assembly by Mike Wood:

ESTA and its members take seriously their obligation to comply with all applicable antitrust laws. Therefore, during this meeting and during all ESTA events, all discussions will be limited to those subjects that are permitted by the antitrust laws. All members should refrain from any discussion or mention of competitively sensitive subjects such as the current or future prices charged for any member product or services, current or future marketing plans or strategies, and current or future costs, including employee salaries. There also must be no agreement on the suppliers or customers that members will or will not do business with or the markets in which members will conduct business.

Violations of the antitrust laws can have serious consequences. If you have any questions or concerns about anything that is discussed at an ESTA meeting, please bring your concern to ESTA management. An easy to read pamphlet describing the antitrust laws is available from the ESTA staff.

Karl Ruling held a copy in front of the camera. No concerns were raised.

2.2 Reading of the call for patents

The following statement was read aloud to the assembly by Mike Wood:

ESTA intends not to publish any standard that contains protected intellectual property, unless that information can be licensed by anyone for a reasonable fee. ESTA uses a process of open patent and copyright disclosures to implement its intent. ESTA does not conduct patent or copyright searches and does not warrant that its standards contain no protected intellectual property.

In keeping with the open disclosures policy, I ask if anyone present wishes to notify this working group of the existence of a patent, patent application, copyright, or other protected intellectual property that might protect material in a standard being developed by this working group. You need not be the holder of the patent or

copyright to notify this working group of its existence.

Nothing was revealed.

3 Attendance and Membership

3.1 Requirements for membership

The following statement was read aloud to the assembly by Mike Wood:

Membership is open to all parties who are affected by the work of the group; membership in ESTA is not a requirement, but there is a \$100/person/year participation fee to help fund the costs of running the Technical Standards Program. Voting members are required to attend meetings and vote on letter ballots. Any principal member and alternate that both miss three consecutive meetings or that miss three consecutive letter ballots will have their membership status changed to observer. This action will be taken at the beginning of the first meeting after such inaction and will be recorded in the minutes of that meeting.

3.2 Introduction of attendees

3.3 Determination of a quorum

Five voting members present at the start of the meeting. Mike Wood announced that a quorum was present.

3.4 Changes to observer status for inactivity

The following voting member will be moved to observer status if this meeting is not attended, due to their lack of participation:

Paul Jordan; NBC Universal; Principal; User

Paul Jordan was not present. He was moved to observer status.

3.5 Processing of new membership and status change requests

Daniel Ayers; StageRight Services LLC; Principal; Designer (new member)

Joseph Kapp, CIH; WSP USA Corp.; Individual; General interest (change of company)

Larry Schoeneman; change from Observer to Individual; General interest

Karl G. Ruling (Unit 12 Productions) moved that these applications be accepted, but that those not present and requesting voting status be accepted as observers. The motion was seconded and then approved with no objections.

3.5 Consensus body during this meeting

Name	Representing	Status	Int Cat
Keith Sklar	Actors' Equity Association	P	G
Mona Shum	Aura Health and Safety Corporation	I	U
Matthew Antonucci	Contract Services Administration Trust Fund	P	U
Chris Moulton	Contract Services Administration Trust Fund	A	U
Michael Skinner	Contract Services Administration Trust Fund	A	U
Edwin S. Kramer	I.A.T.S.E. Local 1	P	DE
Stephen Vanciel	IATSE Local 631	P	U
Larry Schoeneman	Larry Schoeneman	I	G
Mike Wood	Mike Wood Consulting LLC	P	G
Cedric Jackson	SAG - AFTRA	P	U
Brad Dittmer	Stage Labor of the Ozarks	P	U

Name	Representing	Status	Int Cat
Don Phillips	Ultratec Special Effects Inc.	P	MP
Marnie Styles	Ultratec Special Effects Inc.	A	MP
Karl G. Ruling	Unit 12 Productions	I	CP
	Total votes possible	11	
Custom market producer	Votes by interest category	1	CP
Designer		1	DE
Dealer/Rental company		0	DR
General interest		3	G
Mass marker producer		1	MP
User		5	U

4 Approval of the minutes from the last meeting

See *FSmin03-2020_DRAFT.pdf*

Eddie Kramer moved to approve the minutes. The motion was seconded and carried without objections or abstentions.

5 Approval of agenda

Eddie Kramer moved to approve the draft agenda. The motion was seconded and carried without objection or abstention.

6 Old Business

6.1 ANSI E1.5 – 2009 (R2018), Entertainment Technology - Theatrical Fog Made with Aqueous Solutions of Di- and Trihydric Alcohols (Reaffirmation, revision, or withdrawal by 29 November 2023)

No action. There was a brief discussion of PM_{2.5} and PM₁₀ and the inexpensive devices now available for measuring particle size.

6.2 ANSI E1.14 - 2018, Entertainment Technology—Recommendations for Inclusions in Fog Equipment Manuals (Revise, reaffirm, or withdraw by 27 February, 2023).

No news or action.

6.3 ANSI E1.23 - 2020, Entertainment Technology - Design and Execution of Theatrical Fog Effects (Revise, reaffirm, or withdraw by 2025)

No news or action.

6.4 ANSI E1.29 – 2009 (R2018), Product Safety Standard for Theatrical Fog Generators that Create Aerosols of Water, Aqueous Solutions of Glycol or Glycerin, or Aerosols of Highly Refined Alkane Mineral Oil (Reaffirmation, revision, or withdrawal by 06 November 2023)

No news or action.

6.5 ANSI E1.40 – 2016, Recommendations For the Planning of Theatrical Dust Effects (Reaffirmation, revision, or withdrawal by 16 September 2021)

Mike Wood asked if it was time to consider action on this document. He suggested surveying the list of available studies and papers to see if there might be impact on this document's recommendations. There was no motion made.

6.6 Introduction to Modern Atmospheric Effects, 6th edition

Adding information about PM_{2.5} and PM₁₀? See *PSummer2020_StandardsWatch.pdf*.

No decision was made about adding information about PM_{2.5} and PM₁₀.

Hans Lau reported that the latest version of fog and haze guidelines for the film industry (Safety Bulletin 10) is dated 28 June 2019, and the recommendations for dust date back to 2005. He typed https://www.csatf.org/safety_bulletin_10/ in the chat window for everyone.

6.7 Fog exposure and minors—follow up

At the last meeting Cedric Jackson provided four documents about minors working in the entertainment industry:

- *2020.01.30 GA Minors and atmospheric smoke acceptable standards.pdf*
- *2020.01.30 GA Minors Hours of Performance.pdf*
- *2020.01.30 GA Minors in Entertainment.pdf*
- *Movie Fog and Related Substances Jan-24-2020.pdf*

Larry Schoeneman asked if the body of medical community had studies to back up their opinions, and would they be willing to share this information. Cedric Jackson said that he thought that the answer was yes to both questions.

Larry Schoeneman said that he did not wish to move forward on a standards action until the science is made available. The consensus agreed. Cedric Jackson said that he would ask for the information. There was more discussion, at the end of which, everyone agreed they will be anxious to see the research data. Larry asked Karl to distribute the information when it was received. Karl Ruling said he would do so.

There was no report. No information had been received, so Karl Ruling had distributed none.

7 New business

Mona Shum asked if there had been any requests for information about COVID and fog. Karl Ruling said that he had read some reports that fog is detrimental to the live virus. He said he had also read reports about fog machines being used for sanitizing purposes.

Hans Lau said he found a paper from 1947 pertaining to US Navy studies testing the use of fog machines for sanitization purposes. He said that he had seen advertisements for class action law suits regarding the use of fog machines for such purposes.

Lau shared <https://synexis.com>, which is the URL for a company using hydrogen peroxide as a disinfectant.

8 Other business and announcements

8.1 Above & Beyond Awards

The deadline for this year's nominations is 01 November 2020, for awards that would be issued in January of 2021. Information on the Above & Beyond Awards may be found at http://tsp.esta.org/tsp/news/award_recipients.html.

8.2 Other announcements

9 Schedule for future meetings

The full meeting schedule may be found at <http://www.esta.org/ESTA/meetings.php>. The Fall meetings will be held via WebEx, the second week of October 2020.

10 Adjournment

Brad Dittmer moved that the meeting adjourn. Hearing no objections Mike Wood declared the meeting adjourned at 17:39.

Fog & Smoke Working Group members as of 18 August 2020

Delegate	Representing	Voting status	Int. cat.
Matthew Antonucci	Contract Services Administration Trust Fund	P	U
Daniel Ayers	StageRight Services LLC	O	DE
Robert Barbagallo	Solotech Inc.	O	U
Paul Beasley	Walt Disney Company	O	U
Justin Bennett	University of the Incarnate Word	O	U
Brad Dittmer	Stage Labor of the Ozarks	P	U
Mark Elliott	Walt Disney Company	O	U
Mike Garl	Mike Garl Consulting LLC	exf	
Jerry Gorrell	Theatre Safety Programs	O	G
Erin Grabe	ESTA	exf	G
Robert Haycock	UC Berkeley	O	U
Cedric Jackson	SAG-AFTRA	P	U
Paul Jordan	NBC Universal	O	U
Nathan Kahn	Look Solutions USA Ltd.	O	MP
Joseph Kapp	WSP USA Corp.	O	G
Edwin S. Kramer	I.A.T.S.E. Local 1	P	DE
Franco Magliozzi	Chubb Group of Insurance Companies	O	G
Tyler Mickley	Look Solutions, LLC.	O	CP
Chris Moulton	Contract Services Administration Trust Fund	A	U
Richard J. Nix	ESTA	exf	G
Don Phillips	Ultratec Special Effects Inc.	P	MP
Karl G. Ruling	Unit 12 Productions	I	CP
Karl G. Ruling	ESTA	exf	G

Fog & Smoke Working Group members as of 18 August 2020

Delegate	Representing	Voting status	Int. cat.
Larry Schoeneman	Larry Schoeneman	I	G
Ford Sellers	Chauvet Lighting	O	MP
Mona Shum	Aura Health and Safety Corporation	I	U
Mike Skinner	Contract Services Administration Trust Fund	A	U
Keith Sklar	Actors' Equity Association	P	G
Marnie Styles	Ultratec Special Effects Inc.	A	MP
Stephen Vanciel	IATSE Local 631	P	U
Colin Waters	TMB	O	G
Mike Wood	Mike Wood Consulting LLC	P	G

Membership Table Rosetta Stone:

P	Principal voter	CP	Custom-market producer
A	Alternate voter	DE	Designer
I	Individual voter	DR	Dealer/Rental company
O	Observer, non-voter	G	General interest
exf	Ex officio, staff	MP	Mass-market producer
		U	User