Livestock & Poultry (L&P) Air Emissions Standardization Workshop

Hosted by:

USDA – Agricultural Air Quality Task Force

Location:

Environmental Protection Agency Research Triangle Park, NC September 27-28, 2010

L&P Subcommittee Members

- Gary Baise
- Robert Burns
- Paul Martin
- Wendy Powers
- Sally Shaver
- Bryan Shaw

- Doug Shelmidine
- Leon Weaver
- Eileen Wheeler
- Hongwei Xin
- Ben Weinheimer, Chr.

NRCS staff: Greg Zwicke

Background Statement

Standardization of information collected/reported for livestock and poultry air emissions studies is needed.

Purpose

- •Engage:
 - Research, extension, industry, regulators & other interested persons
- •Develop:
 - Guidance document or other document

Purpose (Continued)

- •Outline/define:
 - Data collection, emissions estimating methodologies, & reporting procedures for air emissions & mitigation practices
- •Provide input:
 - NAEMS project/all livestock & poultry air emissions research

Principles of Standardization

- Principle #1 Recommended units for reporting emissions
- Principle #2 Data collection
- Principle #3 Methodologies & protocols
- Principle #4 Consistency in reporting mitigation practices

Principle #1/#2 – Dr. Eileen Wheeler

Principle #3 – Dr. Hongwei Xin

L&P Subcommittee Recommendations to AAQTF

- Workshop materials (emailed to AAQTF members and included in notebooks)
 - Agenda
 - White Papers on Principles of Standardization
 - Video/audio recording to be made publicly available by EPA/USDA

Livestock and Poultry Air Emissions Standardization Workshop – Hosted by the USDA Agricultural Air Quality Task Force FINAL AGENDA

Monday, September 27, 2010 2:00 p.m. – 6:00 p.m.

Environmental Protection Agency Headquarters Research Triangle Park, North Carolina Room C111 A-B-C

2:00 p.m. – 2:05 p.m.	Welcome an	nd Opening Remarks Ben Weinheimer, Agriculture Air Quality Task Force Member, Afternoon Moderator
2:05 p.m. – 2:35 p.m.	The Importance of Standardization Tom Hebert, Bayard Ridge Group	
2:35 p.m. – 4:30 p.m.	Overviews a Principles 1&2 Principle 3 Principle 4	nd Recommendations for Principles <i>Dr. Ken Casey, Texas AgriLife Dr. Richard Gates, University of Illinois David Schmidt P.E., University of Minnesota</i>
4:30 p.m. – 6:00 p.m.	NAEMS Data Analysis, Interpretation, and Emissions Estimating Methodologies Under Consideration <i>Larry Elmore, EPA</i>	
6:00 p.m.	Adjourn	

Tuesday, September 28, 2010 8:00 a.m. – 5:00 p.m.

Environmental Protection Agency Headquarters Research Triangle Park, North Carolina Room C111 A-B-C

8:00 a.m. – 9:00 a.m.	Discussion/Q&A with EPA Sally Shaver, Shaver Consulting, Inc.	
9:00 a.m. – 10:00 a.m.	Moderated Session for Principle 1 — Recommended Units for Reporting Emissions **Dr. Jerry Hatfield, ARS, and Dr. Brent Auvermann, Texas AgriLife**	
10:00 a.m. – 10:30 a.m.	Break	
10:30 a.m. – 11:30 a.m.	Moderated Session for Principle 2 — Data Collection <i>Dr. Jerry Hatfield</i> , ARS, and <i>Dr. Brent Auvermann</i> , Texas AgriLife	
11:30 a.m. – 1:00 p.m.	Lunch on your own	
1:00 p.m. – 2:00 p.m.	Moderated Session for Principle 3 – Methodologies and Protocols **Dr. Jerry Hatfield, ARS, and Dr. Brent Auvermann, Texas AgriLife**	
2:00 p.m. – 3:00 p.m.	Moderated Session for Principle 4 — Consistency in Reporting Mitigation Practices <i>Dr. Jerry Hatfield, ARS, and Dr. Brent Auvermann, Texas AgriLife</i>	
3:00 p.m. – 3:30 p.m.	Break	
3:30 p.m. – 5:00 p.m.	Wrap-Up and Next Steps – Identify Points of Agreement and Identify Where Additional Discussions are Needed **Dr. Jerry Hatfield, ARS, and Dr. Brent Auvermann, Texas** **Agril 160**	

L&P Subcommittee Recommendations to AAQTF

- National Air Emissions Monitoring Study
 - Update on EPA data analysis
 - Larry Elmore, OAQPS, EPA-RTP
 - Danny Greene, ERG (contractor)
- Moderated Discussion Ms. Sally Shaver

- NAEMS Study Issues to be Addressed
 - •EPA shared where they are with data analysis for broilers, with intentions to publish a draft by Dec. 2010. In a stair-step manner, EPA/ERG will publish drafts on broilers, layers, swine and dairy.
 - AAQTF is concerned that the timeline and stair-step approach outlined by EPA will NOT provide for adequate data analysis and public participation.
 - AAQTF recommends that final emission estimating methodologies be published at the same time for all NAEMS datasets.

- NAEMS Study Issues to be Addressed
 - EPA and ERG have not engaged stakeholders or technical experts.
 - AAQTF recommends that NAEMS-project funding organizations quickly establish species-specific advisory panels.
 - Industry stakeholders
 - Agricultural air quality experts
 - Advisory panels should initially meet with EPA/ERG by Nov. 1, 2010.

- NAEMS Study Issues to be Addressed
 - EPA presented preliminary data summary and analysis for broilers.
 - EPA failed to demonstrate appropriate analytical techniques in the approach presented.
 - AAQTF recommends that EPA/ERG develop and provide a written emissions estimating methodologies plan, that includes both data confidence intervals and model validation, subject to review by the advisory panels, prior to conducting any further data analysis.

- NAEMS Study Issues to be Addressed
 - EPA indicated that no progress has been made to define "facility" or "source."
 - AAQTF recommends that the definitions for "facility" and "source" need to be publicly vetted and finalized, as they will be applied to agricultural operations.

- NAEMS Study Issues to be Addressed
 - •EPA has not established a process for including the results of other studies.
 - AAQTF recommends that EPA utilize other research studies, outside NAEMS, in developing and validating the emissions estimating methodologies, as directed by the advisory panels.

Principles of Standardization

- Moderated session Dr. Jerry Hatfield and Dr. Brent Auvermann
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Principle #1/#2 – Dr. Eileen Wheeler

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- White Papers
 - AAQTF recommends that the L&P Subcommittee and moderators develop a 2-4 page summary to be included with the three white papers:
 - Included in minutes of AAQTF meeting
 - Published as ASABE technical reference
 - Published through Livestock and Poultry Environmental Learning Center
 - Support development of a standardization framework proposal for future funding (David Schmidt to lead)

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