

# 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

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

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## **Additional Instructions:**

Workshop attendees will enter EPA headquarters at 109 TW Alexander Drive at RTP, go through the security scan and proceed to the Security Desk to be checked in. There will be a roster for pre-registered attendees to be checked in. Guests will then be directed down the stairs to Room C111 A-B-C. You must have with you a valid form of photo identification.

## **LAPTOP AND CAMERA AUTHORIZATION FORM:**

Attached to this agenda you will find a temporary authorization form for personally owned equipment. It authorizes you to bring in outside electronics such as laptops and cameras. Please print this form, fill it out and bring it with you to the meeting in order to save time at security. You must have this document in your possession while you are at the facility. Upon your departure from the facility you must turn in this document to the Building Security Reception Desk.

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

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

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

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## BACKGROUND INFORMATION

### PURPOSE

To engage a diverse group of research, extension, industry, regulatory representatives and other interested persons in the development of a guidance document or other appropriate document that outlines and defines the appropriate data collection, emissions estimating methodologies and reporting procedures for air emissions and mitigation practices at livestock & poultry operations. Although this effort will provide input to EPA related to the NAEMS project, the scope of the workshop is designed to encompass all livestock and poultry air emissions research.

### BACKGROUND STATEMENT

Agricultural air quality projects utilize a variety of methods, analyzers, models and units to determine or express the concentration and emissions of various air emission constituents, including particulate matter (PM), ammonia (NH<sub>3</sub>), volatile organic compounds (VOCs), hydrogen sulfide (H<sub>2</sub>S), carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), etc. Standardization of information collected/reported for livestock and poultry air emissions studies is needed.

### PRINCIPLES OF STANDARDIZATION

The workshop will focus on four key areas, as identified by the USDA Agricultural Air Quality Task Force, where standardization is recommended:

1. **Recommended units for reporting emissions** – how emissions are reported to best represent a specific animal species, source or type of housing (e.g., kg/animal marketed, kg/animal unit, kg/kg of nitrogen fed, kg/surface area of lagoon, etc.).
2. **Data collection** – collection of raw data related to physical, biological and operational characteristics of the operation that are needed for the development of the emissions in the recommended units.
3. **Methodologies and protocols** – proper analytical procedures or protocols of the raw data that will minimize the uncertainty of the resultant emissions estimation.
4. **Consistency in reporting mitigation practices** – key components of mitigation practices, including the system summary, mitigating mechanism, mitigation efficiency, efficacy of emission reduction, cost effectiveness, and limitations of application.



U.S. EPA Temporary Authorization for Personally Owned Equipment (Computer Laptop / Camera)

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